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This Issue in Brief

Company unions existed in 593, or 4 percent, of the 14,725 establishments which reported to the Bureau of Labor Statistics in a survey conducted in April 1935. In 97 of these establishments regular trade unions were also functioning. Of a total of 1,935,556 workers employed in the 14,725 establishments covered, 385,954 workers, or approximately 20 percent, were employed in establishments which had company unions only, and 144,434, or 7.5 percent, in establishments dealing with both company unions and trade unions. Almost 15 percent of the company unions covered in the study were established during the war period, and 64 percent were established during the period of the N. R. A. Page 865.

Average annual earnings of police-department employees ranged from \$1,293 to \$3,107 in 1934, according to a survey recently completed by the Bureau of Labor Statistics. The annual salary of patrolmen—the occupational group which comprised approximately three-fourths of the employees covered—averaged \$2,175. The average number of hours on duty per day for police-department employees during the year was between 8 and 9 in most of the important cities. Page 857.

Weekly earnings of employees in the drilling and production branch of the petroleum industry averaged \$28.22 in August 1934, and the wage rates then existing in the industry represented, in general, substantial increases over those in force prior to code adoption. Average full-time hours of labor, on the other hand, decreased during this period. Page 877.

Wage earners in 35 manufacturing industries worked an average of 165.1 hours per month during 1933. The average ranged from 140.9 in the machine-tools industry to 220.8 in the beet-sugar refining industry. Data for individual industries, for earnings as well as hours of labor, are given in a study based upon unpublished data of the 1933 census. Page 904.

High silicosis and tuberculosis rates were found among a group of anthracite miners examined in different sections of the anthracite field in Pennsylvania in a study of anthraco-silicosis made by the United States Public Health Service. Physical examinations of 2,711 active workers showed that 616, or 22.7 percent, had anthraco-silicosis, 106 being in the more advanced stages of the disease. Tuberculosis as a complication was found in 124 cases. The disease developed most

rapidly in workers exposed to high concentrations of the dust, about 13 percent of the rock workers having stage 1 anthraco-silicosis when the working period was less than 15 years, while 9 out of 10 of these workers who had been employed more than 25 years had the disease. Page 979.

Allotments for 22 Federal and 7 limited-dividend housing projects were reported as having been made by the Housing Division of the Federal Emergency Administration of Public Works as of August 1, 1935, in connection with the program for low-rent housing. Construction had been started on 5 of the Federal housing projects, and 5 of the limited-dividend projects were either partly or wholly finished when the report was made. Page 968.

Tests of lighting conditions in Connecticut clothing factories, made by the Women's Bureau of the Department of Labor, showed that facilities for both daylight and artificial light are inadequate in most cases to meet the minimum requirements of the American Standards Association lighting code, particularly as applied to sewing on dark materials. Page 972.

National income increased by 11 percent, or 5 billion dollars, between 1933 and 1934, according to estimates made by the Division of Economic Research of the United States Bureau of Foreign and Domestic Commerce. The total income in 1934 was 49.4 billion dollars as compared with 44.4 billion in 1933 and 48 billion in 1932. In 1934 all types of income payments increased except interest, and all of 12 industry groups studied reflected the gain with the exception of the electric light and power and gas group. The index of labor income in 1934, including wages and salaries, was 64.8 based on the total for 1929, as compared with 57 in 1933 and 60 in 1932. Page 947.

Shortly after the passage of the Ontario Industrial Standards Act, making collective agreements enforceable as law, the building trades of the Toronto area secured legalized schedules establishing hourly wage rates of 50 and 60 cents for unskilled labor and 75 cents to \$1 for journeymen. A 5-day, 40-hour week, 8 legal holidays in addition to Saturdays and Sundays, and definite provisions for increased rates for overtime work were also established for skilled workers. Page 1008.

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WASHINGTON

October 1935

Salaries and Working Conditions in Police Departments, 1934 1

AN OUTSTANDING feature of the post-war era is the increase in jobs in the service industries, professions, and public work. In the field of public service, a most spectacular gain has been registered in the personnel for law enforcement. The number of policemen (excluding detectives, marshals and constables, probation and truant officers, and sheriffs) in the United States increased from 82,120 in 1920 to 131,687 in 1930.² Thus, while the population of the country increased only about 16 percent, the number of police officers increased more than 60 percent. No doubt since 1930, due to mounting State and municipal deficits, the police force of the country has been reduced to some extent, but there is little evidence of drastic retrenchment. This is especially true of the larger cities. In fact, in New York City the number of police-department employees in 1934 was actually greater than in 1929.

Because of the growing importance of law administration as a gainful occupation, the Bureau of Labor Statistics in recent years has made occasional surveys of the salaries of police-department employees in the principal cities. The present article summarizes the results of the fifth general survey and covers conditions prevailing in 1934.³

The survey for 1934 was much more comprehensive than the preceding studies of this series, all cities with a population of 25,000 or over being canvassed. Reports were received from 377 cities and the number of employees covered totaled 88,985. Moreover, in addition to the details concerning salaries, information was also collected regarding supplementary payments, hours on duty, and hazards of the service. Only a summary of the outstanding results of the survey is contained in the present article, but detailed information by cities can be obtained by addressing the Bureau of Labor Statistics.

¹ Prepared under the direction of J. Perlman, Chief of the Division of Wages, Hours, and Working Conditions, by G. H. Loudenslager and H. O. Rogers, of the Bureau of Labor Statistics.

² U. S. Bureau of the Census, Fifteenth Census of the United States: 1930, Occupation Statistics, United States Summary, p. 16.

³ For results of previous studies see Monthly Labor Review, October 1919 (p. 147), October 1924 (pp. 68-77), January 1930 (pp. 118-138), and May 1933 (pp. 1116-1150).

Annual Salaries

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Not many years ago the salaries of police officers in almost all cities in the country were generally regarded as inadequate, considering the nature of the work and the type of personnel required. In recent years, however, due to the urgent need for a higher type of personnel, salaries have been raised appreciably. Today the salaries of patrolmen average considerably above \$2,000 annually in nearly all the important cities of the country. On the other hand, in the smaller cities with a population of between 25,000 and 50,000 the average salary of patrolmen in 1934 was \$1,702 and in one case a salary of only \$600 was reported.

Superintendents and chiefs of police, of course, receive the highest salaries. For all cities covered the annual earnings of superintendents or chiefs in 1934 averaged \$3,107. Other police-department employees with high annual incomes were inspectors. For this group the average was \$3,027. Salaries of assistant or deputy chiefs averaged \$2,991, captains of police averaged \$2,806, and the average salaries of lieutenants of police was \$2,729.

The lowest average earnings of police-department employees in 1934 were those of matrons, \$1,293. In addition to matrons, other employees with low earnings were telephone operators, the clerical workers (stenographers, typists, and bookkeepers), identification clerks, and secretaries. The average salaries for employees in these occupations ranged from \$1,505 to \$1,902 in 1934. The salaries of the 66,545 patrolmen included in the survey averaged \$2,175 during the year. The average annual salary of sergeants was \$2,393.

As in other occupations, the salaries of police-department employees depend in large measure upon the size and location of the city in which they are employed. The relationship between earnings and size of city is illustrated by table 1 which classifies the salaries of police-department employees by size of cities. From this table it will be seen that for virtually all ranks (or occupations) annual earnings decrease with the size of the cities. In cities with a population of 1,000,000 or over, 14 occupational groups received less than \$3,000 and only 4 groups received less than \$2,000; in cities of 500,000 and under 1,000,000, 20 occupational groups received less than \$3,000 and 7 groups less than \$2,000. This contraction of average annual incomes of each class continued with the decrease in size of city, until in cities with a population of from 25,000 to 50,000 none of the occupational groups had an annual wage in excess of \$3,000 and 20 groups received less than \$2,000.

The highest annual income in all cities was received by the chief or superintendent of police. The average salaries of employees of this rank ranged from a high of \$7,563 in cities with a population of 1,000,000 or over to a low of \$2,521 in cities of from 25,000 to 50,000.

The lowest annual wage in all sizes of cities, with the exception of those of 1,000,000 or over, was reported for matrons. The annual salaries for employees in this group ranged from \$1,721 in cities of 1,000,000 or over to somewhat less than \$1,000 in cities of 25,000 and less than 50,000.

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The occupational groups which were consistently in the higher income brackets were chiefs of police, inspectors, captains of police, assistant or deputy chiefs, lieutenants of police, and chiefs of detectives. Those falling within the low-earnings brackets include matrons, telephone operators, clerical help, identification clerks, and policewomen. It is interesting to note that secretaries who received incomes of \$3,380 in cities of 500,000 and under 1,000,000, averaged only \$1,602 in cities of 50,000 and under 100,000.

Although for all cities the salaries of patrolmen averaged \$2,175 in 1934, the average in cities of 1,000,000 or more amounted to \$2,509. The average for patrolmen declined as the size of the cities decreased and in cities of 25,000 and under 50,000 the average was only \$1,702.

In only one group of cities did the salaries of policewomen approximate those of patrolmen. Their average annual wages in all cities was \$2,113, and in cities of over 1,000,000 they received \$2,481. In all other classifications but one the annual wage for policewomen was under \$2,000. The lowest average for this group was \$1,418 in cities of 25,000 and under 50,000.

Table 1.—Average Annual Salaries of Police-Department Employees in 1934, by Size of Cities

	All o	eities	Cities of or n	1,000,000 nore	and t	f 500,000 ander 0,000
Rank or occupation	Number of em- ployees	Average annual salary	Number of em- ployees	Average annual salary	Number of em- ployees	A verage annual salary
Chiefs or superintendents of police	377 133	\$3, 107	5 15	\$7,563	8	\$5, 788 4, 258
Assistant or deputy chiefs	98	2, 991 2, 558	5	5, 707 5, 273	5	3, 877
Inspectors.	342	3, 027	83	4, 370	93	2, 718
Captains of detectives		2, 591	15	3, 611	3	2, 931
Captains of police	967	2, 806	226	3, 849	112	3, 133
Lieutenants of detectives	472	2, 603	187	2, 973	48	2, 664
Lieutenants of police		2,729	712	3, 441	432	2, 433
Sergeants of detectives	792	2, 192	90	2, 688	165	2, 39
Sergeants of police	5, 057	2, 393	1,945	2, 851	798	2, 33
Detectives		2, 256	1,065	3,005	361	2, 153
Patrolmen		2, 175 2, 113	30, 158 244	2,509 2,481	9, 255	1, 820
Policewomen		1, 293	42	1, 721	86	1, 33
Matrons Identification chiefs	88	2, 136	1	3, 859	4	2, 754
Identification clerks	125	1, 637	2	2,700	6	1, 938
Fingerprint operators	115	1, 832	7	1,946	5	2, 52
Superintendents of telephone or radio	75	2,041	3	4, 680	4	2, 53
Electricians or linemen	237	2, 249	71	2,872	59	1, 963
Telephone operators	. 503	1 1, 505	93	1,608	137	1, 43
Machinists or mechanics	393	1,968	112	2, 331	80	1,88
Secretaries	155	1,902	11	3, 286	7	3, 38
Assistant secretaries	. 14	2, 284	2	2,400	10	2, 26
Chief clerks	. 79	1, 991	3	2, 803	5	2, 87
Clerical (stenographers, typists, bookkeepers, etc.)	1, 226	1, 673	482	1,840	228	1, 68

Table 1.—Average Annual Salaries of Police-Department Employees in 1934, by Size of Cities—Continued

	250,00	es of 00 and 500,000	100,00	es of 00 and 250,000	50,00	es of 0 and 100,000	Cities of 25,000 and under 50,00	
Rank or occupation	Num- ber of em- ploy- ees	Average annual salary	Num- ber of em- ploy- ees	Average annual salary	Num- ber of em- ploy- ees	age	Num- ber of em- ploy- ees	Average annual salar
Chiefs or superintendents of police	23	\$4, 598	57	\$3,653	102	\$3, 082	182	\$2,50
Assistant or deputy chiefs.		3, 693	23	3, 019	27	2, 409	44	1.9
Chiefs of detectives.		3, 300	23	2, 586	28	2,099	25	1.8
nspectors		3, 144	28	2, 448	50	2, 168		1.1
Captains of detectives		2, 630	29	2, 449	22	2, 243	19	2,
Cantains of nolice	136	2,835	198	2, 440	143	2, 264	152	1.
Captains of police	88	2, 387	71	2, 181	37	2, 345	41	2.
deutenants of police		2, 633	232	2, 318	243	2, 174	182	2.
ergeants of detectives	159	2,067	210	2,040	98	2, 109	70	1.
sergeants of police	643	2, 195	663	2,049	490	2,010	518	1.
Detectives		2, 146	619	1, 872	525	1, 792	318	i.
Patrolmen		1, 989	7, 766	1,829	5, 818	1,775	4, 649	1
Policewomen		2,011	58	1, 604	35	1, 583	28	1
Aatrons		1, 422	90	1, 191	51	1, 106	38	1,
dentification chiefs	15	2, 588	29	2,003	24	2,042	15	1.
dentification clerks	61	1, 576	30	1, 619	19	1, 661	7	1.
ingerprint operators		1, 867	19	2,098	38	1, 803	31	1.
superintendents of telephone or radio	13	2, 307	23	1, 927	22	1, 764	10	1.
Electricians or linemen	40	2, 193	28	2,005	28	1, 789	11	
Celephone operators		11, 649	73	1, 333	69	1, 541	37	1,
Machinists or mechanics		1, 785	60	1, 735	45	2,056	28	
ecretaries	18	2, 391	30	1, 735	54	1, 602	35	1,
Assistant secretaries	18	2, 381	0	1, 540	04		0	1,
Chief clerks.	10	2, 605	18	2,095	20		23	1.
Clerical (stenographers, typists, book-	10	2, 000	10	2, 095	20	1,009	43	1,
keepers, etc.)	277	1, 598	114	1, 430	81	1, 522	44	1.

¹ For all men in this group except a very few for whom data were not reported.

The study indicates that although the average annual salary received by patrolmen in all cities was \$2,175, this average was exceeded in 4 of the 5 cities with a population of 1,000,000 or over. The highest average earnings received in cities of this size was \$2,733 in New York. Patrolmen in Detroit averaged \$2,504; in Los Angeles, \$2,389; and in Philadelphia, \$2,190. The lowest salaries in cities of this class were paid in Chicago where patrolmen averaged \$2,119 in 1934.

The highest salary paid to the head of a police department in 1934 in cities of 1,000,000 or over was \$8,575, received by the chief of police in Chicago. Ranking next with respect to earnings in the cities of 1,000,000 or over was the inspector of police in New York City with an annual salary of \$8,240. The highest yearly income in cities of 500,000 and under 1,000,000 was received by the chief of police in Boston (\$7,000) and the lowest in cities of this size was reported by Baltimore (\$4,625). It is interesting to note that Jersey City, with a population of 319,900, was paying its chief of police \$9,000 annually, the highest salary recorded for all cities covered.

In contrast with the established practice in many European cities, supplementary allowances for police officers are not common in this country. Supplements to salaries were reported, however, by a few of the cities covered. In cities which did provide supplementary

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allowances, the type and kind differed greatly. In Philadelphia, for example, the police officers are allowed \$50 a year for uniforms. Aside from Philadelphia, only seven of the cities canvassed granted supplementary cash allowances. In some places the city contributed toward the cost of uniform and equipment. A few cities gave the members nearly a complete complement of equipment and others supplied part of the equipment. The additional items furnished varied greatly and included such equipment as pistols, badges, whistles, night sticks, belts, stripes, hats, street guides, ammunition, gold braid, handcuffs, puttees, uniforms, and overcoats. A few cities provided meals and sleeping quarters for certain classes of employees.

Working Time

Conforming with the general post-war movement in industry and commerce towards a shorter working day, the personnel of police departments have been successful in having the number of hours on duty considerably shortened. The current survey indicates that for all cities canvassed the average number of hours on duty per day was between 8 and 9. The average for superintendents or chiefs of police, however, was 9.4 hours per day. On the other hand, assistant secretaries and clerical workers averaged 7.9 hours a day. The average working day for patrolmen was 8.1 hours.

In cities of 1,000,000 population or over, the average working day for all occupational groups except two was exactly 8 hours. two exceptions were chief clerks who averaged 7.3 hours and clerical workers with an average of 7.9 hours. For the most part, hours on duty per day tended to increase as the size of city declined. In cities with a population of from 25,000 to 50,000, for example, the working time for employees in virtually all occupational groups was substantially higher than in the larger cities (table 2). With two exceptions—captains of detectives and matrons in cities of 50,000 and under 100,000 population—the number of hours on duty per day averaged Patrolmen in cities except those of 25,000 and under less than 10. 100,000 worked an average of 8.2 hours or less per day. In a few of the smaller cities, police chiefs reported 24 hours of duty per day. This meant, of course, that they were always subject to call, not that the actual working time was 24 hours a day.

For all cities the highest average number of hours and days worked per week was reported for the police chiefs (or superintendents). Employees in this group averaged 6.6 days and 61.9 hours per week. Assistant secretaries and clerical workers, in showing an average of 6, worked the least number of days per week; assistant secretaries also had the low of 47.7 for average weekly hours.

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As the size of city declined, a marked increase was shown in the working time. As against an average of 6.1 days and 49.1 hours weekly for patrolmen in cities of 1,000,000 or over, in cities of 25,000 and under 50,000 the working time averaged 6.5 days (55.5 hours) per week. Chiefs or superintendents of police in cities of 1,000,000 or over averaged 48 hours weekly; in cities of 25,000 and under 50,000 they marked 65.8 hours per week.

In cities of 1,000,000 or over the general practice was a 6-day week of 48 working hours. The only occupations which had more hours or a longer week were sergeants of police, detectives, patrolmen, matrons, fingerprint operators, and telephone operators. Those having fewer hours included the clerical workers, machinists, and mechanics. In only one instance was the average number of days per week worked greater than 6.3 and no occupation had more than 54.9 hours per week.

Table 2.—Average Number of Hours on Duty Per Day of Police-Department Employees in 1934, by Size of Cities

	All	eities		1,000,000 nore	Cities of 500,000 and under 1,000,000		
Rank or occupation	Number of em- ployees	Average hours on duty per day	Number of em- ployees	Average hours on duty per day	Number of em- ployees	Average hours on duty per day	
Chiefs or superintendents of police	377	19.4	5	18.0	8	18.0	
Assistants or deputy chiefs		18.6	15	1 8. 0	6	8.0	
Chiefs of detectives		18.7	5	18.0	5	1 8.	
Inspectors	342	18.2	83	18.0	93	1 8,	
Captains of detectives	114	18.8	15	18.0	3	8.	
Captains of police	967	18.4	226	18.0	112	1 8.	
Lieutenants of detectives		18,3	187	18.0	48	9.	
Lieutenants of police	2, 122	18.1	712	8.0	432	8.	
Sergeants of detectives		18.2	90	8.0	165	8.	
Sergeants of police		18.1	1,945	8.0	798	8.	
Detectives	3, 734	18.4	1,065	18.0	361	8.	
Patrolmen	66, 545	18.1	30, 158	8.0	9, 255	8.	
Policewomen		18.0	244	8.0	56	8.	
Matrons		18.6	42	18.0	86	8.	
Identification clerks		18.4	1	8.0	4	8.	
		18.5	2 7	8.0	6	8	
Fingerprint operators	75	18.6	3	8.0	5 4	8	
Electricians or linemen	237	18.0	71	8.0	59	8	
Telephone operators		8.0	93	8.0	137	8	
Machinists or mechanics		8.1	112	8.0	80	8	
Secretaries		18.1	112	8.0	7	8	
Assistant secretaries	14	7.9	2	8.0	10	8	
Chief clerks	. 79	8.1	3	7.3	5	8.	
etc.)	1, 226	17.9	482	7.9	228	8	

¹ For all men in this group except a very few for whom data were not reported.

Table 2.—Average Number of Hours on Duty Per Day of Police-Department Employees in 1934, by Size of Cities—Continued

in a Americantum and Paris	250,00	es of 0 and 500,000	Cities of 100,000 and under 250,000		Cities of 50,000 and under 100,000		Cities of 25,000 and under 50,000	
Rank or occupation	Num- ber of em- ploy- ees	Average hours on duty per day	Number of employ-	Average hours on duty per day	Num- ber of em- ploy- ees	Average hours on duty per day	Num- ber of em- ploy- ees	Average hours on duty per day
Chiefs or superintendents of police	23 18	18.4	57 23	18.4	102	19.5	182	19.9
Chiefs of detectives		8. 2	23	18.3	28	18.5	25	198
nspectors	59	18.1	28	8.0	50	8.6	29	8.
Captains of detectives	26	8.2	29	8.6	22	10. 2	19	9.
Captains of police	136	18.2	198	8. 2	143	8.6	152	9.
Lieutenants of detectives	88	8.5	71	8.1	37	18.4	41	1 9.
Lieutenants of police	321	18.2	232	8.1	243	8.4	182	18.
Sergeants of detectives	159 643	8.1	210	8.1	98	18.6	70	18.
Sergeants of police		18.2	663	18.6	490 525	18.7	518 318	18.
Patrolmen		18.1	7, 766	8.0	5,818	18.2	4, 649	8.
Policewomen		8.0	58	7.9	35	18.0	28	18.
Matrons		8.1	90	18.2	51	1 10. 7	38	17.
dentification chiefs		18.4	29	8.0	24	8.6	15	8.
dentification clerks		8.0	30	8.1	19	7.9	7	8
ingerprint operators		18.4	19	8.0	38	8.5	31	18
uperintende nts of telephone or radio		18.4	23	8.0	22	9.3		1 19
lectricians or linemen		18.0	28	8.0	28	8.2	11	8
'elephone operators	94	8.0	73	7.7	69	8.0	37	8
Machinists or mechanics	68	8.1	60	8.1	45	8.3	28	8
ecretaries		8.0	30	18.0	54	8.2	35	8
ssistant secretaries		7.3	0		0		0	
Chief clerks	10	8.2	18	7.8	20	8.2	23	8
Clerical (stenographers, typists, book-	-						1	1
keepers, etc.)	277	8.0	114	7.9	81	8.0	44	18

¹ For all men in this group except a very few for whom data were not reported.

Vacations With Pay

NEARLY all cities reported a policy of granting annual vacations with pay. For all cities the longest average annual leave was 16.7 days, given to lieutenants of police; and the shortest 10.6 days, given to patrolmen. The annual vacations of superintendents or chiefs of police in cities of 1,000,000 or over ranged from 30 days in New York to 14 days in Philadelphia; of the cities of 500,000 and under 1,000,000, Baltimore allowed 30 days and Buffalo gave 12 days. In cities of more than 1,000,000 the vacations of patrolmen ranged from 14 days in Philadelphia to 20 days in Detroit.

Hazards of the Service

During the year ended June 30, 1934, a total of 5,661 police-department employees were injured in the 370 cities which supplied information on this point. (See table 3.) This means that for each 100 police-department employees on the pay rolls of the reporting cities during the year, 7 were injured.

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Of the 5,661 disabling injuries reported for the year, 95 were fatal. Nearly a third of the fatal accidents were accounted for by the 5 cities (Los Angeles, Chicago, Detroit, New York, and Philadelphia) with a population of 1,000,000 or over.

Table 3.—Number of Police-Department Employees in 370 Cities With Population of 25,000 or Over Injured During Year Ended June 30, 1934 1

Oliverate Mari	Total	Number of employees injured					
Size of city	number of employees	Total	Fatal	Nonfatal			
All cities	87, 965	5, 661	95	5, 5%			
Cities of 1,000,000 or more	36, 831 12, 927 12, 209	2, 485 1, 038 793	29 8 21	2, 45 1, 03 77			
Cities of 100,000 and under 250,000	10, 828 8, 288 6, 882	598 406 341	12 18 7	58 38 33			

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The greatest number of fatalities in proportion to the number of employees—1 out of approximately 472—was reported by the group of cities with a population of 50,000 and under 100,000. Cities with a population of 500,000 and under 1,000,000 had the lowest ratio of fatalities to number employed, 1 out of approximately 1,616. The ratio of total injured to number of employees indicated that cities of 500,000 and under 1,000,000 had the highest proportion, 1 to 12; the lowest proportion of 1 to 21 was reported by the cities with a population of 50,000 and under 100,000. The ratio of fatalities for all cities was 1 to 927 and the ratio of total injured was 1 to 15.

Chicago, with 14 fatal injuries, accounted for the largest number of fatalities. The other fatalities reported by cities with a population of over 1,000,000 were accounted for by New York (9), Philadelphia (4), and Los Angeles (2). Detroit had no fatalities and only a comparatively small number (86) injured.

Although employees in most of the smaller cities escaped with few fatalities, in many cities a relatively large number were injured. Among the smaller cities, Grand Rapids, Omaha, Chattanooga, Poughkeepsie, Dayton, Charlotte, N. C., and Quincy, Mass., reported relatively large numbers of disabling injuries. In New York City, aside from the 9 police-department employees killed during the year, 1,082 nonfatal accidents occurred.

¹ Including 1 city which reported for year ending Dec. 1, 1933, and 1 for year ending Mar. 31, 1934.

Extent and Characteristics of Company Unions: Preliminary Report ^a

Company unions existed in 593 or 4 percent of the 14,725 establishments which reported to the Bureau of Labor Statistics in a survey conducted in April 1935. In 97 of these establishments regular trade unions were also functioning. Of a total of 1,935,556 workers employed in the 14,725 establishments covered, 385,954 workers or approximately 20 percent were employed in establishments which had company unions only, and 144,434 or 7.5 percent in establishments dealing with both company unions and trade unions. Hereafter in this article, unless specifically noted, the data relate to all the 593 establishments having company unions, irrespective of other types of dealing which they may have.

The term "company union" is used generically in this study to describe that type of organization called variously "employee representation plan", "industrial association", "industrial democracy", "company union", etc. The Bureau adopted the term "company union", since this seemed to be the one most commonly used in public discussion and in Government legislation.

Membership in company unions does not always indicate formal application by choice of the individual members. In 35 percent of the establishments covered, employment automatically included membership in the association. The company-union membership included 93.6 percent of all the workers in establishments having only this type of employee representation and 81.1 percent of the employees in establishments dealing with both company unions and trade unions. For many employees in the latter type of establishment there is a dual membership in the company union and some trade union.

Almost 15 percent of the company unions covered in the study were established during the war period; and 64 percent were established during the period of the N. R. A. Reports of trade-union membership show that these two periods were also times of rapid growth in union membership.

Thirty percent of the establishments with company unions, employing 50 percent of the workers in the 593 plants, reported that they had discussed general wage changes, types of wage payment,

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Prepared by Division of Industrial Relations, Florence Peterson, chief.

¹ The term "company union" is used in the Bankruptcy Acts of 1933 and 1934; National Industrial Recovery Act of 1933, and Bituminous Coal Conservation Act of 1935. It also appears in the index of Decisions of the National Labor Relations Board, vol. II, pp. 530-531.

and hours of employment with representatives of the company unions in the period since January 1, 1933. About 13 percent of the establishments, employing 12 percent of the workers, reported that they had not discussed any of these major matters.

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Ten company unions were reported as possessing simultaneously the attributes of dues, regular membership meetings, written agreements, contacts with other workers' organizations, and the right to demand arbitration of differences whereby the management relinquishes its absolute veto power.² The total number of workers in these establishments was 6,515, or 1.2 percent of all workers in the establishments with company unions. On the other hand, 76 of the company unions, or 12.8 percent of the total, exhibited none of these features; the plants in which they were found employed 17.6 percent of the total number of workers in establishments with company unions.

Method and Scope of Study

This study was pursued along two lines:

Questionnaires were mailed to approximately 43,000 establishments reporting monthly employment statistics to the Bureau, and 14,725 usable replies were received. These replies present a quantitative picture of the extent of the various methods of employer-employee dealings, as well as of certain major characteristics of that form of group dealing referred to as company unionism. Data based on this part of the study were supplied by employers,3 and were necessarily limited to matters which could be readily tabulated with a minimum of interpretation. In general the sample is adequate for manufacturing, mining, and public-utility industries. In addition a portion of the service and trade groups are covered. The building industry, because of its peculiar nature, was not covered. Railroads and telephone and telegraphs will be treated separately in the final report. An inadequate number of replies for tabulation was received for car building, canning, turpentine and rosin, and crude petroleum production.

In addition, members of the Bureau's staff visited 126 firms, interviewing employers, personnel directors, officers and members of the company unions, trade-union members, and local citizens who were interested in and had some knowledge of the situation. No company union was studied by field investigators without first obtaining the company's permission to make the study. Copies of minutes of meetings, constitutions, agreements, and other pertinent literature were obtained. Information obtained in the field study will be treated in detail in a bulletin to be issued shortly.

¹ This is a preliminary figure. Further correspondence is necessary in several cases since different establishments apparently dealing through the same organization gave contradictory replies, particularly regarding arbitration and written agreements.

³ Except that in 121 cases in which establishments were included in both questionnaire and field studies, a check on the replies was possible.

Age of Company Unions

By far the largest number of company unions are relatively young. Most of them were organized during the N. R. A. period of 1933 to 1935 (table 1). During these years 377 company unions, or 63.5 percent of the total number studied, were established. These included 306,134 or 57.7 percent of the total workers employed in the establishments covered that had company unions.

Only 3 of the 593 company unions were reported to have been established prior to 1900. The period from 1900 to 1914 showed but a slight increase in the formation of company unions. During this period 8 unions or 1.3 percent of the total, in establishments employing 6,033 or 1.1 percent of the workers, were started. period, 1915-19, during which the World War occurred, accounted for the formation of 87 or 14.7 percent of the company unions covered, in establishments employing 129,866 or 24.5 percent of the workers.

The next three periods shown in table 1 witnessed a material decline in the formation of company unions. Between 1920 and 1922, 31 company unions or 5.2 percent of the total number, with 5.6 percent of the workers, were formed; during the 1923 to 1929 period 35 or 5.9 percent were formed, with 33,484 or 6.3 percent of the workers; during the first depression years, 1930 through 1932, only 29 or 4.9 percent of the total were formed, with 10,453 or 2.0 percent of the workers employed in the plants surveyed.

Table 1.-Distribution of Company Unions by Period of Formation

	Cor	pany	unions o	nly	Comp		ions and	trade	Total with company unions				
Period	Estal	olish- nts	Work	Workers		Establish- ments		Workers		Establish- ments		Workers	
	Num- ber	Per- cent	Num- ber	Per- cent	Num ber	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent	
Before 1900	13	0.6	1, 295 5, 260	0.3	1	1.0	773	0.5	13	0.5	1, 295 6, 033	0. 2	
1915-19	68		103, 948	26. 9	19	19.6	25, 918	17. 9	87	14.7	129, 866	24. 8	
1920-22	26	5. 2	24, 571	6.4	5	5. 2	5, 306	3.7	31	5.2	29, 877	5. 6	
1923-29	29	5. 9	17, 785	4.6	6	6. 2	15, 699	10.9	35	5. 9	33, 484	6.3	
1930-32	26	5. 2	9, 431	2.5	3	3. 1	1,022	. 7	29	4.9	10, 453	2.0	
1933–35 Indefinite informa-	318	64.0	211, 244	54.7	59	60.8	94, 890	65. 7	377	63. 5	306, 134	57.7	
tion	28	1.6	6, 499	1.7	31	1.0	650	.4	19	1.5	7, 149	1.4	
No information	12	2.4	5, 921	1.5	3	3. 1	176	. 2	15	2. 5	6, 097	1. 3	
Total	8 497	100.0	385,954	100.0	97	100.0	144,434	100.0	a 594	100.0	530,388	100.	

¹ These 3 differ from the later forms of company unions: 2 are in plants of shoe manufacturers dealing through the Joint Board of Arbitration in Philadelphia, an employer-employee body which, following a lockout in Philadelphia in 1887, succeeded a similar arrangement with the Knights of Labor. The third is an incorporated union whose membership is limited to the workers of a particular county.

¹ 2 reported "several years ago"; 1, "2 or 3 years ago"; 1, "years ago"; 1, "prior to N. R. A."; 1, "before 1929"; 1 indicated that it had been reorganized in May 1934 but did not report the date of the original organization; 1 was a lumber company which reported dealing through the Loyal Legion of Loggers and Lumbermen, but did not indicate when this method of procedure was initiated.

¹ This establishment reported dealing through the Loyal Legion of Loggers and Lumbermen, but did not indicate when this method of procedure was initiated.

¹ See footnotes 2 and 3.

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See footnotes 2 and 3.
 I public utility company reported having 8 company unions which had been organized at various times between 1924 and 1932; this establishment appears in both the 1923-29 and 1930-32 classifications. The number of workers is divided between the two classifications.

Membership in Company Unions

Company unions are generally open to all the workers in the shop or factory, and in many cases they include office workers as well.⁴ In 13 cases, however, the company union was either limited to a single section or department of the plant or certain sections or departments were definitely excluded.⁵

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Taking the company-union group as a whole, 53.6 percent of the establishments covered, with 54.1 percent of the workers, had plans in which membership was optional; and 35.3 percent of the establishments, employing 39.3 percent of the workers, had plans in which membership was automatic, either immediately upon employment or after having worked in the establishment for a certain length of time (table 2). For the remainder no information was available.

Table 2.—Membership Provisions of Company Unions, in All Establishments with Company Unions

Type of union		ablishi ompan			Workers involved							
		provi	Number providing for—		Total		In company unions providing for—				Member- ship pro-	
	To- tal	mem- n ber- t	tional	10-	Num- ber	Per- cent	Automatic membership		Optional membership		reported	
			mem- ber- ship	port- ed			Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per
Establishments with— Company unions only Company unions and trade unions	496 97						185, 211 23, 128		171, 404 115, 537		29, 339 5, 769	
Total	593	209	318	66	530, 388	100. 0	208, 339	39. 3	286, 941	54. 1	35, 108	6.

Of the 496 establishments with company unions only, 196 or 39.5 percent reported that employees became members of the plan automatically. These establishments included 48.0 percent of the workers. A considerably larger number of plants reported functioning under optional membership, but the number of workers covered by this group of establishments was less than the total under automatic membership.⁶ This would suggest that the larger plants in this group tend somewhat toward automatic rather than optional membership.

One company union which was limited to office workers only is excluded from consideration here, since
this study does not include office workers.

[&]quot;Molders only", "polishers and buffers only"; "foundry"; "one department only" (3 cases); "outside sales force"; "all save sales and office"; "bus operators"; "managers, butchers, and executives"; "operating department employees only"; "machine division only"; "male workers only."

⁶ The remaining establishments for which membership provision was not reported involved 11.5 percent of the establishments and 7.6 percent of the workers,

In establishments having both a company union and a trade union, the percentage of plans with optional membership was considerably greater. Thirteen plants, with 16.0 percent of the workers, had plans involving automatic membership. In these 13 plants, therefore, trade-union members would also automatically become members of the company union.

Dues and Benefit Provisions of Company Unions

OF THE total of 593 company unions studied 411, covering 411,053 workers, reported that they had no provision for dues or any other means of raising funds from the membership, while 27, with 14,258 workers, did not reply to the question, "Do members pay dues?" Some provision for payment by the members was made in 155 plants, covering 105,077 or 19.8 percent of the workers (table 3). Of these 155 establishments 140 had optional membership; 127 of these reported company-union membership extending to 71.2 percent of their employees (table 4).

Sixty-nine percent of the establishments charging dues charged less than 40 cents a month (table 3); these establishments employed 80.2 percent of all the workers. Only 7 plants, employing 5.3 percent of the workers, reported dues of more than 80 cents a month. Two plans relied on assessments only, while 10 others had various provisions for raising funds.

Table 3.--- Monthly Dues of Company Unions

	Comp	any unio	n only		any unio		Total with company unions			
Monthly dues	Estab	Workers		Estab-	Workers Stab-		Estab-	Workers		
	lish- ments	Num- ber	Per- cent	lish- ments	Num- ber	Per- cent	lish- ments	Num- ber	Per- cent	
Under 20 cents	31 48	31, 118 25, 578	42.2	14	15, 122 12, 473	48. 1 39. 7	45 62	46, 240 38, 051	44. 0	
41-80 cents	19	11, 079	15. 1	1	236	.8	20	11, 315	10.8	
81-100 cents	3 2	761 1, 435	1.0	2	3, 381	10.8	5 2	4, 142 1, 435	3.9	
Assessments only	2	392	. 5				2	392	.4	
Other provision	1 10	1, 889 1, 414	2.6 1.9	1	199	.6	1 10	1, 889 1, 613	1.8	
Total	123	73, 666	100.0	32	31, 411	100. 0	155	105, 077	100. (
No dues charged	360 13	306, 776 5, 512		51 14	104, 277 8, 746		411 27	411, 053 14, 258		
Grand total	498	385, 954		97	144, 434		593	530, 388		

¹ In 9 of these, dues varied with wages. One establishment reported that 1 cent per hour had been added to the base rate of all factory workers and then paid over to the employees' association.

Dues provisions were found almost exclusively in company unions in which membership was optional. However, in 13 establishments, employing 11,315 workers, dues were required even though member-

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ship was automatic; in 11 of these, the worker received for his dues the right of participation in certain insurance and loan benefits, but in the other 2 establishments, both small, no benefits were provided.

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In 90 plans with optional membership and dues provisions, payment of the dues entitled the member to benefit features (table 4). These plants covered 62,767 workers. Fifty plans, covering 30,603 workers, provided no health, loan, or life-insurance benefits. Table 4 indicates that the reported proportion of the employees who were members of optional company-union plans was smaller where no benefits were provided than where right to benefits accompanied membership. This difference, however, was accounted for by the group of establishments dealing through both a trade union and a company union. In such establishments the company unions providing benefit features had an average membership of 87.7 percent of the employees; where no such features were provided, the average membership was only 43.3 percent.

Table 4.—Benefit Provisions and Reported Membership in Company Unions Having Optional Membership and Charging Dues

Cody 7 plants, employment 3.8 person	Company unions with optional membership and dues									
more rough account that enough our winds	7111	of feet	Company unions for which membership was reported							
Provision for benefits	Estab- lish- ments	West			Workers	rkers				
amin't grange to made		Work- ers	Estab- lish- ments	matal.	Members of company union					
				Total	Num- ber	Percent of total				
Company unions with benefits	90 66	62, 767 43, 268	86 64	48, 179 36, 7 6 2	37, 224 27, 212	77.3 74.0				
unions Company unions without benefits Establishments with company unions only Establishments with company unions and trade	24 50 42	19, 499 30, 603 18, 690	22 41 34	11, 417 26, 786 15, 523	10, 012 16, 117 11, 238	87.7 60.2 72.4				
unions. All company unions Establishments with company unions only. Establishments with company unions and trade	8 140 108	11, 913 93, 370 61, 958	7 127 98	11, 263 74, 965 52, 285	4, 879 53, 341 38, 450	43.3 71.2 73.3				
unions	32	31, 412	29	22, 680	14, 891	65.				

General Membership Meetings

OF THE 593 company unions covered by the Bureau's questionnaire, 86 had no provision for general membership meetings, either by plant or department (table 5). In 97 cases there was no answer to the question, "How frequently are general membership meetings held?" These two groups combined included 50.3 percent of the total number of workers in the establishments with company unions. An additional 14.3 percent of the workers were in the 135 establishments that reported general membership meetings held on call only. The 275 company unions reporting provision for regular meetings embrace 35.4 percent of the employees. On the whole these establishments were smaller than those whose plans made no provision for a regular meeting time or for which no data were made available. Monthly or annual intervals between meetings were most common, monthly meetings being provided for by 158 company unions with 19.8 percent of the workers and annual meetings by 52 company unions with 9.0 percent of the workers. Quarterly meetings were reported for 14 company unions in relatively small establishments. In 10 establishments, with a total of 10,323 workers, the members of the company union met weekly.

Comparison of frequency of meetings as between establishments with company unions only and those with company unions and trade unions shows some differences. In the group having both types of collective dealing, 49 of 97 establishments had no reported provision for regular meetings of the company union. These 49 establishments included nearly three-fourths of the workers employed in the 97 plants. It should be noted, however, that in 40 of the 48 establishments reporting regular meetings and dealing also with trade unions, meetings were held at least monthly. These 40 establishments employed about 90 percent of the workers in this group. Among the 227 establishments with regular meetings but with company-union dealings alone, quarterly or less frequent meetings are held in 78 establishments with about two-fifths of the workers in such establishments.

Table 5.- Frequency of Company-Union General Membership Meetings

	Company unions only			Company unions and trade unions			Total	l with company unions			
Frequency of meetings	Estab-	Work	ers	Estab-	Work	ers	Estab-	Work	ers		
	lish- ments	Number	Per- cent	lish- ments	Number	Per- cent	lish- ments	Number	Per-		
Provision for regular meeting Weekly	227	150, 121 9, 716	38.9	48	38, 104 607	26.4	275 10	188, 225 10, 323	35. 4		
Semimonthly Monthly	10	4, 981 76, 289	1.3	11 28	4, 821 28, 915	3.4	21 158	9, 802 105, 204	1.8		
QuarterlySemiannually	12 20	4, 284 10, 418	1.1	2	325	. 2	14 20	4, 609 10, 418	2.0		
Annually	46 192	44, 433 178, 959	11.5	6 29	3, 436 86, 779	2. 4 60. 1	52 221	47, 869 265, 738	9. 0		
On call	117	62, 853	16. 3	18	13, 163	9.1	135	76,016	14.3		
Not reported	75 77	116, 106 56, 874	30. 1 14. 7	11 20	73, 616 19, 551	51. 0 13. 5	86 97	189, 722 76, 425	35, 8		
Total	496	385, 954	100.0	97	144, 434	100.0	593	530, 388	100.		

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lishonly. An analysis of the matters reported discussed between management and company unions is presented in table 6. Of the 593 establishments, all but 42 reported the subjects which had been discussed in conference with representatives of the company unions during the period since January 1, 1933. Ten leading subjects were listed for checking in the Bureau's questionnaire and only 12 companies reported discussion of other matters.

The number of establishments (and the number of employees) in which these matters were discussed is shown in table 6. It must be borne in mind that the frequency with which such subjects are discussed is influenced by the trend of business activity. A study made in the declining phase of a business cycle might reveal a different order of importance. Furthermore, the questionnaire related only to subject matter and shed no light on methods of presentation. The field study revealed that in some instances such discussions involved actual negotiation, but in many instances little more than an announcement of company policy was involved.

Based upon the percentage of all establishments which have company unions, the subjects ranked as follows:

d Discussed Since Ian. 1, 1933, by Establishments With Company Unions

- 1. Individual grievances and complaints.
- 2. Health and safety.
- 3. General wage increase or decrease.
- 4. Wage rates for specific occupations.
- 5. Changes in weekly or daily hours.
- 6. General rules and regulations.
- 7. Methods of sharing or rotating work.
- 8. Discharge of an employee or employees.
- 9. Rules of seniority.
- 10. Type of wage payment.

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Percent

Table 6.-Matters Reported Discussed Since Jan. 1, 1933, by Establishments With Company Unions

		Company	Company unions only		Comp	eny unions	Company unions and trade unions	unions		Total com	Total company union
Matter negotisted	Establi	Establishments	Wol	Workers	Establ	Establishments	Wor	Workers	Establi	Establishments	Wor
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number
Individual grievances and complaints	378	010	343, 749	89.1	82.53	1		87.2			
General wage increases or decreases. Wayer rates for gracific occupations	318		313, 660	73.6	288			90.			
Changes in weekly or daily hours General rules and regulations.	28.30		282, 918 283, 056	13. 35 8. 85 8. 85	23			59.0			
Methods of sharing or rotating work Discharge of an employee or employees.	**	m eq.	288, 403 284, 996	73.7	3. 3. 8			64.7			
Type of wage payment (piecework, bonus, etc.)	219	1.4 1.6 (E)@(E)	258, 963 8, 372	67.0	887	25.8 4.1 (11)	96, 178 26, 140	200.2 44.4 18.1	24 E	2017 2017 2017 2017 2017 2017 2017 2017	322,841
3 principal matters i	150	32.1	32, 324	52.8	19	19.6	56, 873 31, 578	39.4	178	30.0	260, 562 63, 902
All establishments with company unions	496	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	385, 954		97		144, 434		593		530, 388

I General wage changes, type of wage payment, changes in hours.

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When a comparison is made of the relative prevalence and ranking of the matters discussed with their employees by establishments dealing with company unions only and by establishments dealing with both company and trade unions, marked differences in emphasis are revealed. Thus, while individual grievances and complaints ranked first for both groups, the percentage of establishments with only company unions in which such matters were discussed with their employees was 76.2 percent. In establishments with both company unions and trade unions, 80.4 percent reported that individual griev. ances were handled. Likewise, while health and safety ranked second with the group having company union dealings alone (66.9 percent of such establishments), it ranked fourth with the group with mixed dealings (56.7 percent). General wage increases and decreases ranked third with both categories, but was reported as discussed in a somewhat larger proportion in the establishments with dual dealings, Wage rates for specific occupations was fourth in order of prevalence for company unions alone and second for establishments dealing with trade unions also. The matter of sharing or rotating work ranked seventh with 57.3 percent of the establishments dealing with company unions alone and ninth with 35.1 percent of the establishments dealing also with trade unions. The discharge of employees was subject of conference with company unions in 47.2 percent of the establishments dealing with company unions alone and with 55.7 percent of the establishments also dealing with trade unions. Types of wage payment were discussed with company unions in a larger proportion of establishments dealing with company unions alone than of those dealing also with trade unions-44.1 percent and 25.8 percent, respectively.

Since general wage changes, type of wage payment, and changes in hours of employment are fundamental matters involved in employer-employee dealing, it was deemed desirable to ascertain the frequency with which employers discussed all three matters or failed to discuss any one of them with company unions. Thirty percent of all the establishments with company unions, employing 49.1 percent of the workers covered, reported that they conferred with company unions on these three important matters. On the other hand, 13.3 percent of all the establishments, employing 12.0 percent of the workers, did not discuss any of the three subjects. In general these matters were more frequently discussed with company unions in establishments dealing with company unions alone than they were in establishments dealing also with trade unions.

Company-Union Agreements

Of the 593 establishments dealing in part or whole with their workers through company unions, 77 or 13 percent had written agreements. These 77 establishments employed 52,994 workers or 10

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percent of the total number of workers employed by the 593 establishments. Copies of the written agreements were submitted by 36 of the 77 establishments. Nineteen of these agreements followed closely along trade-union agreement lines. They contained provisions almost identical with those generally found in union agreements in regard to wage scales, hours, working conditions, arbitration clauses, and special industrial problems. Of these 19 company-union agreements, 4 were identical with the agreements that these same establishments had with trade unions. Three of these were entered into with American Federation of Labor unions and one with a local of the Industrial Workers of the World.

Of the 36 companies which submitted agreements, 9 had agreements limited to the affirmation of the N. R. A. codes under which the particular establishment operated. Eight contained declarations of mutual good will and an enumeration of how the workers can organize for conference with the employer—matters ordinarily incorporated in the company-union constitution. No mention was made in these agreements of wages, hours, and working conditions.

Outside Contacts of Company Unions

Between one-fourth and one-fifth of all the company unions were reported as having contacts with company unions in other plants of the same company (table 7). The proportion of workers covered by these cases was, however, markedly larger than this figure. The contacts ranged through all degrees of formality and regularity. One large company with more than 15 company unions in as many establishments, and employing more than 38,000 workers, stated that—

Each works council is a self-governed unit, and although the council plan provides for general councils comprised of representatives of the various works councils, there has been no recent need for such joint meetings of representatives of the councils, nor has there been any occasion where a meeting of our representatives with those of another company would have been necessary or of particular advantage to either group.

Another company reported that the bylaws provided for meetings of representatives of the different plants when necessary, but no such meetings have been held to date. On the other hand, a number of companies reported that formal contacts between the company unions in their different establishments were consistently maintained. In a few cases the establishments so connected were widely separated geographically. Annual joint meetings of employee representatives were the general rule in such cases.

Contacts with company unions in other companies were relatively much less frequent than contacts within the same company. This is the more striking because the number of possible contacts within the same company was restricted by the fact that many of the companies had only one establishment. The total of company unions

with external contacts includes 15 companies dealing through the Loyal Legion of Loggers and Lumbermen, which is here classed as a company union. Four companies were connected with the American Guild of the Printing Industry in Baltimore and one with a federation of printing shops in Boston. Two others handled their labor relations through the Joint Board of Arbitration in the shoe industry in Philadelphia. These 22 company unions are the only ones with clearly defined contacts with other company unions in companies not financially affiliated with the establishments in question. In addition, 6 establishments reported that their employees had some loose contact with employees and organizations in other companies through correspondence or plant visitation, but these cases are not included here.

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Table 7.—Contacts of Company Unions with Company Unions Outside of Own Establishment

	Т	otal	Conta pan con		ith other ions in	com- same	Contact with company unions in other companies			
Type of union	Estab-		Estal		Work	ers	Estal me	olish- nts	Work	ters
	lish- ments	Workers	Num- ber	Per-	Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per-
Establishments with— Company unions only Company unions and trade unions	496 97	385, 954 144, 434	1 101 30	20. 4	1 116, 619 43, 897	30, 2 30, 4	41	8. 3 9. 3	34, 002 11, 350	8.1
Total	593	530, 388	1 131	22.1	1 160, 516	30. 3	50	8.4	45, 352	8.

¹ In addition, one company with 19 company unions in as many establishments, embracing a total of 21,880 workers, reported for all these company unions that "in some instances, employee representatives of 1 plant have contact with those of another", but it was impossible to determine from the reply to which of the establishments the statement had reference. The entire chain is, therefore, excluded from the group reporting contacts.

Wages and Hours of Labor in the Drilling and Production Branch of the Petroleum Industry

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In AUGUST 1934 drilling and production employees had average weekly earnings amounting to \$28.22. From 1929 to 1933 average wage rates per hour declined in the majority of occupations, and in general the full-time weekly hours also declined. After the adoption of the petroleum code, however, in August 1933, average rates per hour for workers paid on a time basis and average full-time hours per week moved in opposite directions. Decreases in average full-time hours per week from May 1933 to July 1934 were general. Average rates of wages per hour, on the other hand, increased substantially.

Changes in average time rates of pay and average full-time hours per week during five periods since 1929 and average hourly earnings, average weekly hours of labor, and average weekly earnings in August 1934 are presented in this article. It is the third of a series covering the results of a survey of wages and hours of labor in the petroleum industry, made by the Bureau of Labor Statistics for the Petroleum Administration.²

The firms which supplied figures covering rates of pay and full-time hours per week employed 69,883 3 workers in July 1934 in the 18 States covered by this survey. It is estimated that this number of employees embraced at least 50 percent of all those working in drilling and production at that time. The five pay-roll periods for which the above information was secured were May 1929, May and November 1933, and May and July 1934. The reasons for selecting the above dates were adequately discussed in the article dealing with wages and hours of pipe-line employees, as were also the methods followed in obtaining the average hourly rates and average full-time hours for leading occupations. For drilling and production, averages for 19 important occupations 4 were derived.

¹ Prepared by E. K. Frazier, under the direction of J. Perlman, chief of Division of Wages, Hours, and Working Conditions.

² The first of these articles, giving the general findings for all of the three branches of the industry—drilling and production, pipe lines, and refining—appeared in the Monthly Labor for July 1935 (p. 13); and the second, dealing in detail with the pipe-line branch, in the September issue (p. 559).

³ Arkansas, 1,182; California, 14,171; Colorado, Montana, New Mexico, and Wyoming, 2,270; Illinois, Indiana, Michigan, and Ohio, 1,470; Kansas, 3,409; Kentucky and West Virginia, 1,562; Louisiana, 4,987; New York and Pennsylvania, 2,819; Oklahoma, 16,690; and Texas, 21,323.

⁴ 57,455 workers were employed in these occupations in the States where there was a sufficient number to present occupational averages. The remaining 12,428 were either in other occupations which had too few reported to present representative State or regional averages or not enough in any one of the 19 specific occupations to justify showing such averages.

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The frequency distributions and averages of hourly earnings (as contrasted with hourly rates), of hours worked per week (as contrasted with nominal full-time hours), and of weekly earnings are based on records of 38,372 employees in 514 plants located in the 18 States ⁵ for which the oil administrator set up production quotas. The reports for each worker included total hours worked and total earnings for the selected pay-roll period, ⁶ and total hours worked for 1 week within the pay-roll period.

As the number of female workers engaged in drilling and production is small,⁷ no separate figures are presented by sex. In the study of earnings, as contrasted with rates, the employees have been classified into 14 specific occupations and 6 occupational groups.

The Bureau made similar surveys covering wages and hours in this industry branch in 1920 and 1929. It is therefore possible to make some comparisons between the 1934 data and those for these years. The 1920 survey was quite extensive, including 35,255 employees engaged in operations in 16 States, and may be compared directly with the results shown for 1934. However, as the 1929 survey covered only four States, it was necessary to make a special tabulation of the 1934 data to include only the States covered in 1929 before making direct comparisons.

Changes in Average Wage Rates Per Hour and Average Full-Time Hours Per Week

Average wage rates per hour for workers paid on a time basis and average full-time hours per week moved in opposite directions after the adoption of the oil code. Wage rates increased considerably in each occupation and region included in table 1 with the exception of air and gas lift engineers in California, whose average wage rates per hour in July 1934 were about 9 percent lower than they had been in May 1933 but even so were only 1 percent below the level of 1929. Full-time hours declined in all occupations except those of air and gas lift engineers, drilling derrickmen, machinists, and pumpers in California. For these particular groups average full-time hours per week were the same as, or slightly higher than, in May 1933.

Between May 1929 and May 1933 average wage rates per hour declined in all occupations in each State except those of air and gas lift engineers and machinists in California, drilling derrickmen, rotary drillers, rotary drillers' helpers, drilling firemen, firemen other than drilling, gagers, repair mechanics, and pumpers in Texas, clean-out drillers' helpers in Kentucky and West Virginia, laborers and pumpers in Colorado, Montana, New Mexico, and Wyoming, pumpers and

[•] See footnote 3, p. 877 for a list of the States covered.

⁴ Most of the pay-roll periods covered were in August 1934.

⁷ Only 234 female workers were reported.

⁸ California, Louisiana, Oklahoma, and Texas.

roustabouts in Indiana, Illinois, Michigan, and Ohio, and truck drivers in Louisiana. The reduction in wage rates ranged from 0.2 percent for roustabouts in Texas to 34.4 percent for clean-out drillers' helpers in Oklahoma, as during this period of depression firms readjusted not only the actual working time of their operations but also the full-time hours per week of the individuals in the various occupations. The range of increase in average wage rates was from 0.8 percent for repair mechanics in Texas to 28.3 percent for drilling derrickmen in the same State. Almost half of the 15 instances of wage-rate increases between May 1929 and May 1933 were for employees in Texas. This was due in some measure to the bringing in of the East Texas field.

Between May and November 1933 all occupations, except air and gas lift engineers in California, had a marked increase in average wage rates per hour. These gains varied from 3.4 percent for drilling derrickmen and rotary drillers' helpers in California to 75.9 percent for clean-out drillers' helpers in Oklahoma. As this range is very wide, a clearer idea may be gained by stating that out of the 97 gains reported in table 1 during the above period, 5 were under 5 percent, 9 were 5 and under 10 percent, 9 were 10 and under 20 percent, 24 were 20 and under 30 percent, 19 were 30 and under 40 percent, 17 were 40 and under 50 percent, and 14 were 50 percent or over. These increases in average wage rates in the great majority of the cases are to be attributed to the code, which not only increased minimum rates but also limited the maximum hours per week, thus resulting in higher hourly rates for employees working on a daily, weekly, or monthly basis.

Due to further adjustments in wage rates after November 1933, many of which resulted from the Oil Administrator's order of May 21, 1934, providing for "an equitable adjustment of the differentials between the rates for skilled jobs and the minimum rates established for common labor" in the code, most of the occupations in the various States had a higher average wage rate in July 1934 than they had in November 1933. It should be noted, however, that 7 occupations in California had slightly lower average wage rates in July 1934 than they had in November 1933.

When the July 1934 wage rates are compared with those in effect in May 1929, it will be seen that the losses suffered during the depression have been more than overcome in every occupation in each State with the exception of some in California, Kansas, Oklahoma, and Texas. In Kansas cable drillers and tool dressers were receiving wage rates in July 1934 that were slightly below those being paid in 1929. This was also true for rig builders in Oklahoma and Texas. In California a majority of the occupations were receiving a slightly lower average wage rate per hour in July 1934 than in May 1929.

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pers and The lowest actual average wage rate paid in 1934 was 47.8 cents for unskilled laborers in Kentucky and West Virginia. This rate is 12.5 percent over that paid in 1929 and almost 26 percent over the rate paid in May 1933. The highest average wage rate paid in July 1934 was \$1.369 for the skilled job of rotary driller in Louisiana which exceeded that for California by only one-tenth of a cent and those for the other two great producing States—Oklahoma and Texas—by about 1 and 8 cents, respectively. The rate in Louisiana represented an advance of 46.4 percent over the 1929 rate and slightly over 52

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percent above what was paid during May 1933. Full-time hours per week followed the same general downward trend as wage rates between May 1929 and May 1933. There were declines in all occupations in all States with the exception of air and gas lift engineers in New York and Pennsylvania; cable drillers: laborers and tool dressers in Illinois, Indiana, Michigan, and Ohio; laborers and roustabouts in Kansas; laborers and rotary drillers' helpers in Louisiana; and clean-out drillers' helpers and truck drivers in Oklahoma. For most occupations and regions full-time hours were decreased by amounts ranging from 0.2 percent for clean-out drillers in Kentucky and West Virginia and laborers in New York and Pennsylvania to 44.3 percent for tool dressers in Colorado, Montana, New Mexico, and Wyoming. Of the 88 reductions in full-time hours reported between May 1929 and May 1933, there were 13 under 5 percent, 16 of 5 and under 10 percent, 35 of 10 and under 20 percent, 20 of 20 and under 30 percent, and 4 of 30 percent or over. The reductions between these two periods were made largely to meet the changing industrial conditions prevailing during the latter part of 1932 and the early part of 1933. Upon the adoption of the oil code in August 1933, full-time hours were further reduced to bring them more or less into line with those specified by the code, i. e., an average maximum of 40 per week for clerical employees and 36 for all employees other than clerical.9 The reductions between May and November 1933 were quite large in most cases, as 28 of them were 20 and under 30 percent, 23 were 30 and under 40 percent, and 21 were 40 percent or over, while only 13 were less than 10 percent. Between November 1933 and May 1934, on the other hand, there were 47 instances of an increase in full-time hours. These advances in most cases were comparatively small, as 26 of them were less than 2 percent, 12 were 2 and under 4 percent, and 9 were 4 percent or over. There were 38 reductions during the same period, of which 22 were less than 2 percent, 9 were 2 and under 4 percent, and 7 were 4 There were 13 cases which showed no change. percent or over.

⁹ Executives, supervisors and their immediate staffs and pumpers on "stripper" wells and employees on isolated properties were excepted.

Between May and July 1934 there was little change in the full-time hours per week. The hours of drilling derrickmen and of firemen other than drilling in Oklahoma declined 7.6 and increased 5.3 percent, respectively. Gagers' hours in Louisiana increased 7 percent. Laborers' hours in Illinois, Indiana, Michigan, and Ohio declined by 6.5 percent—about the same rate as the decrease in the hours of roustabouts in these States. The hours of repair mechanics and tool dressers in California decreased approximately 6 percent. The hours of pumpers in Kentucky and West Virginia were reduced by 7.5 percent, while in Texas the hours of repair mechanics increased 6 percent and tool dressers' hours declined by 10.2 percent.

In July 1934 no occupation in any State had full-time hours equaling 85 percent of the full-time hours of 1929. In almost three-fourths of the cases shown in table 1 full-time hours averaged less than 70 percent of the 1929 figure. In spite of these great reductions in full-time hours between 1929 and 1934, however, the average full-time hours per week in certain occupations in many States exceeded 36. The higher hours were generally found in drilling operations which, at best, are irregular; because of this irregularity over a period of time the actual working time would not necessarily equal the average maximum hours permitted by the code even in these occupations.

Table 1.—Changes in Average Wage Rates Per Hour and Average Full-Time Hours Per Week in 19 Occupations for Five Selected Periods

	Num-	Aver	age rate ;	per	Average full-time hours per week				
Occupation, State or region, and period	ber of em- ployees	Amount	Per- cent of change	Index num- bers	Num- ber	Percent of change	Index num- bers		
Air and gas lift engineers:									
California:									
May 1929	445	\$0,895		100.0	49.0		100.0		
May 1933	437	. 973	+8.7	108.7	34.4	-29.8	70.		
November 1933	432	. 882	-9.4	98. 5	33.9	-1.5	69.		
May 1934	422	. 887	+.6	99. 1	35.9	+5.9	73.		
July 1934	443	. 885	2	98. 9	35. 9	(1)	73.		
Kentucky and West Virginia:		1			-	1	1		
May 1929	11	. 597		100.0	49.8	1	100.		
May 1933	67	. 487	-18.4	81.6	48.0	-3.6	96.		
November 1933	122	. 611	+25,5	102. 3	39.7	-7.3	79.		
May 1934	124	. 661	+8.2	110.7	39. 4	8	79.		
July 1934	117	. 674	+2.0	112.9	39.7	+.8	79.		
New York and Pennsylvania:	1								
May 1929		. 627		100.0	49.0		100.		
May 1933	. 57	. 474	-24.4	75.6	51.8	+5.7	105.		
November 1933	77	. 655	+38.2	104. 5	39. 4	-23.9	80.		
May 1934		. 684	+4.4	109.1	39. 4		80.		
July 1934	74	. 697	+1.9	111. 2	39.5	+.3	80.		
Oklahoma:						1			
May 1929		. 574		100.0	62.8		100.		
May 1933		. 572	4		49.9	-20.5	79.		
November 1933		.748	+30.8	130. 3			57.		
May 1934		.804	+7.5	140. 1			58.		
July 1934	. 271	, 911	+.9	141.3	36.4	(1)	1 58.		

¹ No change.

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Table 1.—Changes in Average Wage Rates Per Hour and Average Full-Time Hours Per Week in 19 Occupations for Five Selected Periods—Continued

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prompt because have a training	Num-	Aver	age rate p	Aver	Average full-time hours per week			
Occupation, State or region, and period	ber of em- ployees	Amount	Per- cent of change	Index num- bers	Num- ber	Per- cent of change	Inde num bers	
errickmen, drilling:								
California: May 1929	1,776	\$0.983		100.0	49.1		100	
May 1933	281	. 933	-5.1	94. 9	35. 2	-28.3	71	
November 1933	• 433	. 965	+3.4	98, 2	34.9	9	71	
May 1934	546	. 952	-1.3	96.8	35.8	+2.6	72	
July 1934	587	. 962	+1.1	97. 9	35. 2	~-1.7	7	
Louisiana: May 1929	157	. 530		100.0	68. 2		100	
May 1933	66	. 509	-4.0	96.0	64.7	-6.5	100	
November 1933	156	. 795	+56.2	150.0	37.5	-42.0	5	
May 1934	370	. 787	-1.0	148, 5	37.5	(1)	5	
July 1934.		. 809	+2.8	152. 6	37.9	+1.1	5	
Oklahoma: May 1929	142	. 634		100.0	83, 4		10	
May 1933	35	. 493	-22.2	77.8	68.7	-17.6	8	
November 1933	180	. 725	+47.1	114.4	48. 2	-29.8	5	
May 1934	157	. 775	+6.9	122. 2	49.8	+3.3	5	
July 1934	162	. 810	+4.5	127.8	46.0	-7.6	5	
Texas: May 1929	491	. 487		100.0	56.6		10	
May 1933	363	. 625	+28.3	128.3	52. 2	-7.8	9	
November 1933	639	. 807	+29.1	165. 7	36.8	-29.5	6	
May 1934	718	. 856	+6.7	175. 8	36. 9	+.3	6	
July 1934	757	. 848	9	174. 1	36.6	8	6	
rillers, cable: Colorado, Montana, New Mexico, and						111		
Wyoming:								
May 1929	45	. 949		100.0	83.0		10	
May 1933	25	.819	-13.7	86.3	49.4	-40.5	5	
November 1933		1, 099	+18.8 +12.9	102. 5 115. 8	45. 1 45. 3	-8.7 +.4	5	
May 1934	62	1.099	-1.6	113. 9	44.3	-2.2	5	
Illinois, Indiana, Michigan, and Ohio:			1.0					
May 1929		. 731		100.0	69. 6		. 10	
May 1933		. 634	-13.3	86.7	70.5	+1.3	10	
November 1933 May 1934		. 908	+43.2	124. 2 129. 0	45. 6 46. 0	$-35.3 \\ +.9$	6	
July 1934		.971	+3.9 +3.0	132.8	45. 5	-1.1	1	
						1		
May 1929	80	.980	*******	100.0	82.6		10	
May 1933 November 1933	39 60	. 784	$\begin{array}{r r} -20.0 \\ +23.6 \end{array}$	80. 0 98. 9	73. 4 43. 6	$\begin{bmatrix} -11.1 \\ -40.6 \end{bmatrix}$	1 8	
May 1934		. 969	+23.6	101.5	45, 9	$\begin{array}{c c} -40.5 \\ +5.3 \end{array}$		
July 1934		. 978	-1.7	99.8	45. 6	7	1	
New York and Pennsylvania:								
May 1929		. 691		100.0	71.9		10	
May 1933 November 1933		. 520	-24.7 +47.9	75. 3 111. 3	64.6	$\begin{vmatrix} -10.2 \\ -35.0 \end{vmatrix}$		
May 1934		. 880	+47.9 +14.4	127. 4	41.9	-35.0		
July 1934		. 887	+.3	126. 9	42.0	+.2		
Oklahoma:					100			
May 1929	260	1.030		100.0	77.5	******	- 10	
May 1933 November 1933	61	. 846	$-17.9 \\ +12.9$	82. 1 92. 7	63.1	$\begin{vmatrix} -18.6 \\ -28.2 \end{vmatrix}$		
May 1934	155	1.013	+12.9	98. 3	44.3			
July 1934		1.073	+5.9	104. 2		+.7		
Texas:			10.0		153 64		1	
May 1929		.890		100.0		******	- 1	
May 1933		1 111	-5.1	94.9	74.3			
November 1933 May 1934		1. 111	+31.5	124.8 125.8	43.7	-41.2 -3.4		
July 1934		1, 120	+9.4	137. 6		-3.4		
rillers, clean-out:	1	3,220		337.0	1			
Kentucky and West Virginia		11/2	100		1	1 1		
May 1929		. 733		100.0			- 1	
	130	549	-26.1	73.9	48.0	- 63		
May 1933	. 29	. 542	1 24 7					
	42	.730 .762	+34.7	99.6	40.0	-16.7		

¹ No change.

Table 1.—Changes in Average Wage Rates Per Hour and Average Full-Time Hours Per Week in 19 Occupations for Five Selected Periods—Continued

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100.0 71.7 71.1 72.9 71.7

100.0 93.5 54.2 54.2 54.8

100.0 82.4 57.8 59.8 55.2

> 92. 2 65. 0 65. 2 64. 7

100.0 59.5 54.3 54.6 53.4

100. 0 101. 3 65. 5 66. 1 65. 4

100.0 88.9 52.8 55.6 55.2

100.0 89.8 58.4 58.3 58.4

100.0 81.4 58.5 57.2 57.5

100.0 92.0 54.1 52.2 51.9

100.0 99.8 83.2 83.0 82.7

	Num-	Aver	age rate hour	per		rage full- irs per w	
Occupation, State or region, and period	ber of em- ployees	Amount	Per- cent of change	Index num- bers	Num- ber	Per- cent of change	Index num- bers
orillers, clean-out—Continued.							
Oklahoma: May 1929	325	\$0.787		100.0	72.3		100.0
May 1933	167	. 540	-31.4	68.6	70.6	-2.4	97. 6
November 1933	352	. 912	+68.9	115. 9 121. 0	40. 4 37. 8	-42.8 -6.4	55. 9 52. 3
July 1934	337	. 997	+4.7	126. 7	38. 5	+1.9	53.
Texas: May 1929	136	.740		100.0	74.8		100.0
May 1933	64	658	-11.1	88.9	64.3	-14.0	86.
November 1933	78	. 996	+51.4	134. 6	37.7	-41.4	50.
May 1934	102 105	1. 022 1. 105	$+2.6 \\ +8.1$	138. 1 149. 3	37. 1 37. 8	-1.6 + 1.9	49. 50.
rellers, clean-out, helpers:	100	1. 100	70,1	149. 0	01.0	71.9	50.
Kentucky and West Virginia:				****	45.5		
May 1929 May 1933.	153 34	. 444	+4.1	100, 0	49. 2 47. 6	-3.3	100. 96.
November 1933	56	. 584	+26.4	131.5	40.4	-15.1	82.
May 1934	61	. 616	+5.5	138, 7	41.1	+1.7	83.
July 1934	68	. 623	+1.1	140.3	40, 2	-2.2	81.
Oklahoma: May 1929	250	010		100.0			400
May 1933	359 98	. 619	-34.4	100. 0 65. 6	73. 3 75. 0	+2.3	100.
November 1933	208	.714	+75.9	115.3	42.7	-43.1	58.
May 1934	283	. 758	+6.2	122. 5	38. 9	-8.9	53.
Taxas:		. 804	+6.1	129. 9	38. 5	-1.0	52.
May 1929	124	. 541	*******	100.0	77. 2		100.
May 1933. November 1933	60	. 440	-18.7	81.3	70.3	-8.9	91.
May 1934	106 124	.723	+64.3	133, 6 134, 0	41.4	-41.1 +1.2	53. 54.
July 1934	92	. 769	+6.1	142. 1	40.6	-3.1	52.
illers, rotary: California:				1		100	-
May 1929	1, 965	1, 421		100.0	48.9	- 1415	100.
May 1933	385	1. 283	-9.7	90.3	35. 7	-27.0	73.
November 1933 May 1934	532	1. 364	+6.3	96.0	34.8	-2.5	71.
July 1934	652 715	1.368 1.368	+.3	96.3 96.3	35. 3 35. 0	+1.4	72.
Louisiana.			()				
May 1929		. 935		100.0	70.5		100.
November 1933	232	. 899 1. 316	-3.9 +46.4	96. 1 140. 7	66. 5 37. 4	-5.7 -43.8	94. 53.
May 1934	325	1. 338	+1.7	143. 1	39. 3	+5.1	55.
July 1934 Oklahoma:	322	1. 369	+2.3	146. 4	38.7	-1.5	54.1
May 1929	232	1. 167		100.0	78.3		100.
May 1933	59	. 936	-19.8	80. 2	60.7	-22.5	77.
November 1933 May 1934	196 237	1. 170 1. 235	+25.0	100.3	44. 9 43. 6	-26.0 -2.9	57. 55.
July 1934	199	1. 285	+5.6 +4.0	110. 1	42.6	-2.3	54.
Texas: May 1929		000					
May 1933	433 425	. 972 1. 044	+7.4	100.0	68. 5 54. 9	-19.9	100. 80.
November 1933	814	1. 312	+25.7	135. 0	39. 6	-27.9	57.
May 1934	969	1. 339	+2.1	137.8	39. 9	+.8	58.
July 1934 rillers, rotary, helpers:	999	1. 357	+1.3	139. 6	40. 4	+1.3	59.
California						M. W. W.	
May 1929	4, 849	. 902		100.0	49.3		100.
May 1933 November 1933	887 1, 385	. 831	-7.9 +3.4	92. 1 95. 2	37. 0 37. 5	$-24.9 \\ +1.4$	75. 76.
May 1934	1, 779	. 862	+.3	95. 6	35, 3	-5.9	71.
July 1934 Louisiana:	1, 956	. 877	+1.7	97. 2	35, 3	(1)	71.
May 1929	276	. 494		100.0	65. 6		100.
May 1933	171	. 456	-7.7	92.3	72.7	+10.8	110.
November 1933	425	.710	+55.7	143.7	39.3	-45.9	59.
May 1934	663 682	.749	+5.5	151.6 157.1	41.8	+6.3	64.
No change.	002		10.0	. AUT. A	12.0	1.4.4	

Table 1.—Changes in Average Wage Rates Per Hour and Average Full-Time Hours Per Week in 19 Occupations for Five Selected Periods—Continued

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201 20 (200)	Num-	Aver	age rate p hour	per		rage full-t irs per we	
Occupation, State or region, and period	ber of em- ployees	Amount	Per- cent of change	Index num- bers	Num- ber	Per- cent of change	Inder num- bers
Orillers, rotary, helpers—Continued. Oklahoma:							
May 1929		\$0.615		100.0	75. 9		100.
May 1933	163	. 544	-11.5 +23.5	88. 5	57.6	-24.1	75.
November 1933		. 672	$\begin{array}{r r} +23.5 \\ +11.5 \end{array}$	109.3 121.8	42.5	-26.2 +4.0	56. 58
July 1934		. 749	+11.5	121.8	44. 2	+4.0 -(1)	58, 58,
Texas:							
May 1929.	1, 139 1, 240	. 520	410	100.0	66. 8 56. 9	-14.8	100
May 1933 November 1933	2, 486	. 525	+1.0 +36.6	137. 9	40.6	-14.8 -28.6	85 60
May 1934	2, 823	. 760	+6.0	146. 2	40.6	(1)	60
July 1934	2, 851	. 784	+3.2	150. 8	41.7	+2.7	62
Firemen, drilling: California:							
May 1929	513	. 765		100.0	49.8		100
May 1933	83	. 701	-8.4	91.6	37.5	-24.7	75
November 1933	122	. 753	+7.4	98. 4	34.4	-8.3	69
May 1934	156	. 732	-2.8 -1.5	95. 7 94. 2	35. 9 35. 1	+4.4	72
Louisiana:		. 721	-1.5			-2.2	70
May 1929		. 486		100.0	78.1		100
May 1933	127	. 450	-7.4 -52.6	92.6	62.7	-19.7 -41.6	80
November 1933 May 1934	332 263	. 691	+53.6 +10.9	142. 2 157. 6	36.6 37.5	$-41.6 \\ +2.5$	46
July 1934	263 337	.766	+10.9	157. 6 158. 8	37. 5	+2.5	42
Texas:			1.0		1		1
May 1929	198	. 509		100.0	72.4		100
May 1933. November 1933.	277	. 620	$+21.8 \\ +22.1$	121. 8 148. 7	53. 8 36. 8	-25.7 -31.6	50
May 1934	586	. 866	+14.4	170.1	37.0		5
July 1934	610	. 818	+14. 4 -5. 5	160. 7	36.8	+.5 5	
Firemen, other than drilling:							1
California: May 1929	403	. 784		100.0	49.7	La La Tra	100
May 1933	163	. 749	-4.5	95. 5	35. 9	-27.8	7
November 1933	192	. 790	+5.5	100.8	34. 2	-4.7	68
May 1934	266	. 777	-1.6	99. 1	34.9	+2.0	70
July 1934	. 233	. 787	+1.3	100. 4		3	
Oklahoma: May 1929	102	. 523		100.0	72.0		100
May 1933	. 53	. 442	-15.5	84. 5	64. 1	-11.0	8
November 1933	. 81	. 672	+52.0	128. 5	39.7	-38.1	5
May 1934	160	. 739	+10.0	141. 3	37.7	-5.0	5
July 1934		.775	+4.9	148. 2	1	+5.3	
May 1929	141	. 517		. 100.0			_ 10
May 1933	64	. 533	+3.1	103. 1	49.5	-25.3	7
November 1933	98	. 729	+36.8	141.0	37.1	-25.1	5
May 1934	103	.777	+6.6				
Gagers:	119	. 784	+.9	101.6	30.4	3	1
Caillornia:	1	177			1	1 3 3 3	
May 1929	123	. 856		100.0			10
May 1933. November 1933.	125						
May 1934	_ 143	. 908	+7.9 2				7
July 1934							
Louisiana:			-93		1 300		
May 1929				100.0			- 10
May 1933 November 1933	- 34 57						
May 1934.						+.5	5 8
July 1934							
Toyos.			1				
May 1929				115.0			- 10
May 1933	219 283						
November 1963	4000	. 120	au. 0			4.00	
November 1933 May 1934 July 1934	_ 332	. 800	+6.8	153.8	37.6	(1)	

1 No change.

Table 1.—Changes in Average Wage Rates Per Hour and Average Full-Time Hours Per Week in 19 Occupations for Five Selected Periods-Continued

The state of the s	Num-	Aver	age rate j hour	per		rage full-t irs per w	
Occupation, State or region, and period	ber of em- ployees	Amount	Per- cent of change	Index num- bers	Num- ber	Per- cent of change	Index num- bers
borers:							
Arkansas: May 1929	76	\$0.433		100.0	64. 2		100.
May 1933	32	. 375	-13.4	86. 6	53. 1	-17.3	82.
November 1933	33	. 632	+68.5	146.0	35. 6	-33.0	55.
May 1934	80	. 611	-3.3	141.1	36.0	+1.1	56.
July 1934California:	78	. 647	+5.9	149. 4	36.0	(1)	56.
May 1929	1, 118	. 640		100.0	48.7		100.
May 1933	294	. 533	-16.7	83.3	42.7	-12.3	87.
November 1933	264	. 597	+12.0	93.3	35. 4	-17.1	72. 74.
May 1934	467 355	. 581	-2.7 + 2.9	90. 8 93. 4	36. 5 36. 4	+3.1	74.
Colorado, Montana, New Mexico, and	500	. 000	12.0	90. 1	50. 1		
Wroming.							100
May 1929 May 1933	31 46	.430	144	100.0	59.8 48.3	-19.2	100
November 1933	134	.508	+4.4	118, 1	36.1	-25.3	60
May 1934	145	. 565	+11.2	131. 4	37.5	+3.9	62
July 1934.	146	. 557	-1.4	129.5	36. 2	-3.5	60
Illinois, Indiana, Michigan, and Ohio: May 1929	46	.377		100.0	57.5		100
May 1933		350	-7.2	92.8	57.7	+.3	100
November 1933	72	. 492	+40.6	130. 5	40.5	-29.8	70
May 1934		. 547	+11.2	145.1	40. 2	7	69
Vanagas		. 517	-5.5	137.1	37.6	-6.5	65
May 1929	216	. 445		100.0	59.3		100
May 1933		. 389	-12.6	87.4	62.1	+4.7	104
November 1933 May 1934		. 495	+27.2	111. 2 112. 6	35.0	$\begin{vmatrix} -43.6 \\ +3.1 \end{vmatrix}$	59 60
July 1934.	167 186	.501	+1.2 +2.0	114.8	36.1	+.3	61
Kentucky and West Virginia:			1		00.2	1.0	
May 1929				100.0	48. 2		100
May 1933 November 1933	81 254	. 380	$\begin{array}{c c} -10.5 \\ +22.6 \end{array}$	89. 4 109. 6	48.0	-17.9	99
May 1934			+3.0	112.9	39. 4		81
July 1934			4	112.5	39.3	3	81
Louisiana: May 1929	010	494		100 0	60.0	1	100
May 1933			-12.5	100. 0 87. 5	60.9	+2.3	100
November 1933	372		+39.6	122. 2		-40.8	60
May 1934			+3.5	126.4			56
July 1934 New York and Pennsylvania:	413	. 543	+1.3	128.1	36.3	5	51
May 1929	298	. 502		100.0	49.0		. 100
May 1933		. 376	-25.1	74.9	48.9	2	91
November 1933 May 1934			1 20.0	109.8		-22.9	7
July 1934.			$\begin{array}{c c} -2.7 \\ +6.3 \end{array}$				
Oklahoma:				1			1
May 1929				100.0			- 10
May 1933 November 1933	1, 100			87.1			
May 1934	1, 173		+2.7	120.3			
July 1934	1, 180	. 551	+2.2	123.0	36.8	+.5	5
Texas: May 1929	842	. 464		100.0	60.9		10
May 1933	470		-6.0	94.0			9
November 1933	1, 302	. 564	+29.4	121. 6	37. 1	-34.6	6
May 1934				124, 8			
achinists:	1, 458	. 596	+2.9	128.4	36, 6	5	6
California:				1 -			
May 1929	322			. 100.0			- 10
May 1933 November 1933	114			107. 1			7
May 1934	149			113. 8	36.0	1 0	1
July 1934	147		8	113. 2	36.0	(1)	7

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00, 0 75, 9 56, 0 58, 2 58, 2

00. 0 85, 2 60. 8 60. 8 62. 4

100. 0 75. 3 69. 1 72. 1 70. 5

0.001 80, 3 46, 9 48, 0 47, 5

100. 0 74. 3 50. 8 51. 1 50. 8

100. 0 72. 2 68. 8 70. 2 70. 0

100 0 89. 0 55. 1 52. 4 55. 1

100. 0 74. 7 56. 0 55. 1 54. 9

100.0 81.9 77.5 77.8 77.3

100. 0 90. 6 59. 4 59. 7 63. 9

100.0 61.6 54.0 54.0 52.9

Table 1.—Changes in Average Wage Rates Per Hour and Average Full-Time Hours Per Week in 19 Occupations for Five Selected Periods—Continued

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	Num-	Aver	age rate hour	per		rage full- irs per w	
Occupation, State or region, and period	ber of em- ployees	Amount	Per- cent of change	Index num- bers	Num- ber	Per- cent of change	Index num- bers
Machinists—Continued.							
New York and Pennsylvania: May 1929 May 1933 November 1933 May 1934 July 1934 Oklahoma:	29 40 52	\$0. 643 . 611 . 781 . 769 . 780	$ \begin{array}{r} -5.0 \\ +27.8 \\ -1.5 \\ +1.4 \end{array} $	100. 0 95. 0 121. 5 119. 6 121. 3	48 4 47.0 36.3 36.2 36.3	-2.9 -22.8 3 +.3	100.0 97.1 75.0 74.8 75.0
May 1929 May 1933 November 1933 May 1934 July 1934 Texas:	75 91 102	. 798 . 756 . 897 . 940 . 969	-5.3 +18.7 +4.8 +3.1	100. 0 94. 7 112. 4 117. 8 121. 4	54. 4 48. 7 36. 3 36. 3 36. 3	-10. 5 -25. 5 (1) (1)	100.0 89. 66. 66. 66.
May 1929 May 1933 November 1933 May 1934 July 1934 Mechanics, repair:	42 56	. 909 . 770 . 931 . 956 . 927	$ \begin{array}{r} -15.3 \\ +20.9 \\ +2.7 \\ -13.0 \end{array} $	100. 0 84. 7 102. 4 105. 2 102. 0	56, 2 49, 9 36, 0 36, 0 36, 0	-11. 2 -27. 9 (1) (1)	100.6 88.6 64.64.64.
California: May 1929	369 395 453	. 900 . 858 . 903 . 883 1. 106	-4.7 +5.2 -2.2 +25.3	100, 0 95, 3 100, 3 98, 1 122, 9	48, 2 37, 1 35, 3 38, 2 36, 0	-23.0 -4.9 +8.2 -5.8	100, 77, 73, 79, 74,
May 1929 May 1933 November 1933 May 1934 July 1934 Texas:	204 231	. 635 . 583 . 748 . 787 . 810	-8. 2 +28. 3 +5. 2 +2. 9	100. 0 91. 8 117. 8 123. 9 127. 6	59. 2 54. 1 36. 8 37. 0 37. 1	-8.6 -32.0 +.5 +.3	100. 91. 62. 62. 62.
May 1920 May 1933 November 1933 May 1934 July 1934	183	. 637 . 642 . 805 . 827 . 847	+.8 +25.4 +2.7 +2.7 +2.4	100. 0 100. 8 126. 4 129. 8 133. 0	61. 5 55. 0 36. 6 35. 2 37. 3	-10.6 -33.5 -3.8 +6.0	100. 89. 59. 57. 60.
Arkansas: May 1929 May 1933 November 1933 May 1934 July 1934	405	. 487 . 449 . 704 . 731 . 740	-7.8 +56.8 +3.8 +1.2	100. 0 92. 2 144. 6 150. 1 152. 0	76. 5 64. 7 36. 0 36. 1 36. 2	-15.4 -44.4 +.3 +.3	100. 84. 47. 47. 47.
California: May 1929. May 1933. November 1933. May 1934. July 1934. Colorado, Montana, New Mexico, and	2, 255	. 794 . 747 . 789 . 800 . 797	-5.9 +5.6 +1.4 4	100. 0 94. 1 99. 4 100. 8 100. 4	46. 8 35. 1 37. 2 35. 2 35. 2	-25. 0 +6. 0 -5. 4	100. 75. 79. 75. 75.
May 1929	250 438 514	. 469 . 496 . 676 . 683 . 716	+5.8 +36.3 +1.0 +4.8	100. 0 105. 8 144. 1 145. 6 152. 7	73. 9 58. 1 38. 5 39. 0 40. 3	-21.4 -33.7 +1.3 +3.3	100. 78. 52. 52. 54.
Indiana, Illinois, Michigan, and Ohio: May 1933 November 1933 May 1934 July 1934.	630 883 744	. 436 . 457 . 599 . 600 . 590	+4.8 +31.1 +.2 -1.7	100. 0 104. 8 137. 4 137. 6 135. 3	64. 6 56. 8 39. 7 39. 6 39. 5	-12.1 -30.1 3 3	100. 87. 61. 61. 61.
Kansas:	701 961 1 040	. 402 . 357 . 627 . 659 . 676	-11. 2 +75. 6 +5. 1 +2. 6	100. 0 88. 8 156. 0 163. 9 168. 2	74. 5 70. 1 37. 7 37. 3 37. 3	-5. 9 -46. 2 -1. 1	100. 94. 50. 50. 50.

1 No change.

Table 1.—Changes in Average Wage Rates Per Hour and Average Full-Time Hours Per Week in 19 Occupations for Five Selected Periods—Continued

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100.0 97.1 75.0 74.8 75.0

100.0 89.5 66.7 66.7 66.7

100.0 88.8 64.1 64.1 64.1

100.6 77.0 73.2 79.3 74.7

100.0 91.4 62.2 62.5 62.7

100.0 89.4 59.5 57.2 60.7

100.0 84.6 47.1 47.2 47.3

100. 0 75. 0 79. 5 75. 2 75. 2

100. 0 78. 6 52. 1 52. 8 54. 5

100. 0 87. 9 61. 5 61. 3 61. 1

94. 1 50. 6 50. 1 50. 1

	Num-	Aver	age rate p hour	per		rage full- irs per we	
Occupation, State or region, and period	ber of em- ployees	Amount	Per- cent of change	Index num- bers	Num- ber	Per- cent of change	Index num- bers
umpers—Continued.							
Kentucky and West Virginia:		40 -10		100.0			100.0
May 1929	461 394	\$0.542 .429	-20.8	100. 0 79. 2	50. 1 48. 7	-2.8	100. 0 97. 2
May 1933 November 1933	407	. 578	+34.7	106. 6	39.9	-18.1	79.6
May 1934	416	.606	+4.8	111.8	39. 9	(1)	79.6
July 1934	416	. 604	3	111.4	36. 9	-7.5	73.7
Louisiana:	****			100 0			100.0
May 1929	583 488	. 546	-1.5	100. 0 98, 5	65. 4 55. 6	-15.0	100. 0 85. 0
November 1933	673	. 688	+27.9	126. 0	37.4	-32.7	57. 2
May 1934	775	. 698	+1.5	127.8	37.1	8	56. 7
July 1934		. 745	+6.7	136. 4	37. 1	(1)	56. 7
New York and Pennsylvania:	000			100.0	81.0		100.0
May 1929 May 1933	820 780	. 556	-19.8	100. 0 80. 2	51. 8 49. 3	-4.8	100. 0 95. 2
November 1933		. 640	+41.0	113, 1	36.7	-25.6	70. 8
May 1934		. 663	+3.6	117. 1	35.7	-2.7	68. 9
July 1934		. 665	+.3	117. 5	36.1	+1.1	69. 7
Oklahoma:	0.000	400		100 0	80.0		100.0
May 1929 May 1933		. 451	-6.7	100.0	68. 2	-6.7	100. 0 93. 3
November 1933		.652	+54.9	144.6	37. 1	-41.7	54. 4
May 1934		. 696	+6.7	154.3	37.1	(1)	54. 4
July 1934		. 727	+4.5	161. 2	36.8	8	54.0
Texas:	0.710	101		100 0	70 1		100.0
May 1929 May 1933		. 461	+2.8	100. 0 102. 8	76. 1 62. 4	-18.0	100. 0 82. 0
November 1933		. 671	+41.6	145. 6	37.9	-39.3	49.8
May 1934	4,600	. 724	+7.9	152.0	37. 2	-1.8	48.9
July 1934	4, 783	. 755	+4.3	163.8	36.9	8	48. 5
builders:							
California: May 1929	177	1. 165		100.0	47.9		100.0
May 1933	98	1. 005	-13.7	86.3	36, 6	-23.6	76, 4
November 1933		1.040	+3.5	89.3	36.0	-1.6	75. 2
May 1934		1.040	(1)	89.3	36.0	(1)	75. 2
July 1934.	152	1.041	+.1	89. 4	36.0	(1)	75. 2
Kentucky and West Virginia: May 1929.	30	. 615		100.0	48.2		100.0
May 1933			-20.5	79. 5	47.9	6	99.4
November 1933		. 607	+24.1	98.7	39.9	-16.7	82. 8
May 1934			+2.1	100.8		+1.0	83.6
July 1934 Oklahoma:	48	. 624	+.6	101.5	40. 1	5	83. 2
May 1929.	169	1, 170		100.0	62.0		100.0
May 1933.	44				59.6		
November 1933		1.020	+18.7	87. 2	35. 3	-40.8	
May 1934			-9.1	79. 2			
July 1934	. 75	. 975	+5.2	83.3	36.4	(1)	58.7
May 1929	. 53	1, 195		100.0	64. 2		100.0
May 1933	163			77. 5		-22.1	77.9
November 1933.	. 270			84.7			
May 1934.							
July 1934oustabouts:	296	1. 105	+1.3	92. 5	39. 9	+2.3	62. 1
Arkansas:							
May 1929	. 509	. 504		100.0	64.3		_ 100.0
May 1933.							
November 1933							
May 1934	411						56. 0 56. 0
California:	407	. 094	7.0	151.1	00.0	(-)	00.0
May 1929		.715		_ 100. 0			_ 100.0
May 1933	1, 333	. 689	-3.6	96. 4	36. 8	-21.7	
November 1933							
May 1934							
							411. 4

Table 1.—Changes in Average Wage Rates Per Hour and Average Full-Time Hours Per Week in 19 Occupations for Five Selected Periods—Continued

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To

	Num-	Aver	age rate p hour	per		rage full-t irs per we	
Occupation, State or region, and period	ber of em- ployees	Amount	Per- cent of change	Index num- bers	Num- ber	Per- cent of change	Inder num- bers
oustabouts—Continued. Colorado, Montana, New Mexico, and			-				
Wyoming:	900	20 202		100.0	00 4		-
May 1929	300 327	\$0.505 .482	-4.6	100. 0 95. 4	62. 1 48. 5	-21.9	100
November 1933	360	. 612	+27.0	121. 2	37.0	-23.7	- 86
May 1934	538	. 618	+1.0 +5.2	122, 4 128, 7	35, 6 36, 3	-3.8 +2.0	87
July 1934	403		4.07.3			7 2. 0	58
May 1929	425	. 437		100, 0	62.4	-14 9	100
May 1933. November 1933.	261 117	. 452	+3,4	103, 4 137, 5	53. 5 41. 9	-14.3 -21.7	88
May 1934	269	. 641	+6.7	146.7	40.3	-3.8	6
July 1934	300	. 617	-3.7	141, 2	37. 9	-6.0	0
Kansas: May 1929		. 462		100. 0	61. 2		100
May 1933	677	. 406	-12.1	87. 9	62. 5	+2.1	10
November 1933	1,035	. 574	+41.4	124. 2	36. 7	-41.3	6
May 1934	1, 125 1, 132	. 623	+8.5	134. 8 137. 0	36, 6	3	N B
Kentucky and West Virginia:			7.1. 6			-, 3	
May 1929		. 443	10.4	100, 0	52.3		10
May 1933. November 1933.	324	. 388	-12.4 $+33.5$	87. 6 116. 9	50. 1 39. 8	-4.2 -20.6	9 7
May 1934	402	. 518	+33.5	116. 9 122. 3	39, 8	-20.6 +.3	7
July 1934	416	. 541	2	122. 1	39. 7	8	7
Louisiana:				1		111	10
May 1929 May 1933	473	. 535	-2.6	100.0 97.4	61. 5 52. 4	-14.8	10
November 1933	828	. 675	+29.6	126. 2	36. 9	-29.6	0
May 1934	987	. 699	+3.6	130.7	36. 6	8	- 5
July 1934. New York and Pennsylvania:	986	. 707	+1.1	132. 1	36. 8	+.5	1 5
May 1929		. 559	*****	100.0	51.6		10
May 1933	412	. 449	-19.7	80.3	48.8	-5.4	9
November 1933 May 1934		. 598	+33. 2	107.0	37.1	-24.0 -1.3	7
July 1934	876	. 622	+4.0	111.3	36. 6	(1)	7
Oklahoma:		1 550					
May 1929		. 500		100.0		0065000	10
May 1933 November 1933	2, 976 4, 055	. 444	$-11.2 \\ +37.4$	88. 8 122. 0	54. 8 36. 7	-6.6 -33.0	
May 1934	4, 293	. 663	+8.7	132. 6	36.3	-1.1	1 6
July 1934		. 658	8	131.6			
Texas: May 1929		. 508		100.0	62.1		10
May 1929	2,773	. 508	2	99.8		-14.5	1 8
November 1933	. 3, 535	. 647	+27.6	127.4	36. 3	-31.6	1
May 1934	4, 169	. 673	+4.0	132. 8	37. 2	+2.5	1
July 1934	4, 104	. 689	+24	135. 6	36. 6	-1.6	1
California:							
May 1929	258	. 835		100.0		40000000	
May 1933	- 243	. 779		93.3			
November 1933	251	. 875					
July 1934	209			104. 6			
Colorado, Montana, New Mexico, and			1	1	125		
Wyoming: May 1929	1	. 668		. 100. 0	60.0		10
May 1933	. 52	. 573	-14.2	85. 8	52. 5	-12.5	
November 1933	- 59	. 757	+32.1	113. 3	36.0	-31.4	
May 1934	. 63	. 765	+1.1	114. 5	36.0	(1)	
July 1934 Louisiana:	82	. 816	+6.7	122. 2	34.7	-3.6	1
May 1929				100.0			_ 10
May 1933	. 26	. 587	-8.0	92.0	53.3	-10.6	
		. 849	+44.6	133, 1	36. 2	-32.6	1
November 1933 May 1934							

1 No change.

Table 1. Changes in Average Wage Rates Per Hour and Average Full-Time Hours Per Week in 19 Occupations for Five Selected Periods Continued

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No. of the control of	Num- ber of	Aver	age rate phour	M.		rage full-t rs per we	
Occupation, State or region, and period	em- ployees	Amount	Per- cent of change	Index num- bers	Num- ber	Per- cent of change	Index num- bers
tillmen and dehydrators—Continued.							
Oklahoma; May 1929	434	80, 545		100.0	63. 8		100.0
May 1933	344	. 503	-7.7	92.3	54. 9	-13.9	100. 0
November 1933	461	, 710	+41.2	130, 3	36. 6	-33.3	57, 4
May 1934	459 478	. 733	+3.2	134. 5 138. 0	36, 9 36, 7	+.8	67.5
Texas:	410	1 100	48.0	100, 0	30. 7	6	87.1
May 1929		. 531		100.0	70.0		100.0
May 1933.	94	, 493	-7.2	92, 8	62, 0	-11.4	88,
November 1933. May 1934	185	. 727	+47.5	136, 9	36. 2	-41.6 -1.4	81.
July 1934	200	. 763	+1.2	145. 4	36. 4	+2.0	82.
'ool dressers:			1			1 41 4	
California: May 1929	970	PM MA		100 0	843.43		1494
May 1933	378 155	. 999	-8.1	100, 0	50, 0 34, 8	-30.4	100.
November 1933	152	. 984	+7.2	98. 5	34. 6	6	69.
May 1934		. 978	0	97. 9	35, 1	+1.4	70.
July 1934	220	. 932	-4.7	93, 3	33, 1	-8.7	00,
Wyoming:							
May 1020	49	. 740		100.0	83. 0		100.
May 1933		.713	-8.6	96, 4	46, 2	-44.3	55.
November 1933 May 1934	83	, 748	+4.9	101.1	45.8	7.9	88.
July 1034		. 855	+14.3	110.5	43, 8 45, 0	-4.4 +2.7	52. 54.
Illinois, Indiana, Michigan, and Ohio:		, 000	10.0	110.0	40.0	12.	0.4.
May 1020	84	. 622	*****	100.0	68, 3	*****	100.
May 1933 November 1933	28	. 547 . 779	=12.1	87.9	70.9	+3.8 -35.4	103.
May 1934	115	. 827	+42,4	125. 2 133. 0	45.8	+.4	67.
July 1934	100	, 838	+1.3	134.7	45. B	4	67.
Kansas: May 1929	Man	NAME OF THE PARTY OF					1.000
May 1933	78 53	. 889	-27. 2	100, 0 72, 8	83.6 72.5	-13. 3	100,
November 1933	9438	787	+21.6	88, 5	41. 1	-43.3	49.
May 1934	100	. 818	+3.9	92. 0	42.7	+3.9	81.
July 1934	100	, 813	0	91. 5	41.4	-3.0	49,
New York and Pennsylvania: May 1929	183	. 589	1	100.0	70.0		100
May 1033	45		-27. 6	72. 5	60.0	-14.3	85.
November 1933	. 137	, 620		105. 3	42.5	-20.2	
May 1934	161			129.9	42.2	7	60
July 1934 Oklahoma:	178	. 764	1	129.7	42. 1	2	00.
May 1929		. 790		100.0	77.8		100
May 1933	77	. 661	-16.3	83.7			
November 1933	245		+12.3				
July 1934.				St. 100 (100 (100 (100 (100 (100 (100 (100			
Toxas:		1	1	1.0.0		1 200	
May 1020	- 369	1 1 10 10 10		- 100, 0			. 100
May 1933 November 1933	90	2 (0424)					
May 1934	316						
July 1934	. 300						53
Truck drivers:		1000	1	1	1	11111	1
Arkansas: May 1929	61	, 498	100	100.0	04.4		100
May 1933	.1 27		-17. 2				
November 1933	- 20	658	4.50.2	131.9	36, 0	-39,6	5.0
May 1934	_ 24		+9.0				
July 1934	- 97	. 770	47.4	154. 3	35, 8	-, 3	56
May 1929	791	. 840		100.0	45.4		
May 1933	_ 262		-9.0	91.0		-17.8	82
November 1933	278						
May 1934							

Table 1.—Changes in Average Wage Rates Per Hour and Average Full-Time Hours Per Week in 19 Occupations for Five Selected Periods—Continued

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	Num-				Average full-time hours per week			
Occupation, State or region, and period	ber of em- ployees	Amount	Per- cent of change	Index num- bers	Num- ber	Per- cent of change	Inde num ber	
ruck drivers—Continued.							stance of the st	
Colorado, Montana, New Mexico, and								
Wyoming:								
May 1929	70	\$0.593		100.0	63.3		100	
May 1933	65	, 565	-4.7	95, 3	49.5	-21.8	78	
November 1933	73	. 688	+21.8	116.0	38.7	-21.8	6	
May 1934	86	. 708	+2.9	119. 4	38.7		6	
July 1934	86	. 736	+4.0	124.1	38.7	~ (1) (1)	6	
Kansas:			1		00.1	1 1	0	
May 1929	138	. 511		100.0	63.1		10	
May 1933	118	. 434	-15.1	84. 9	58.6	-7.1	9	
November 1933	161	. 669	+54.1	130. 9	36. 9	-37.0	5	
May 1934	173	. 670	+.1	131. 1	37.0	+.3	5	
July 1934	182	. 687	+2.5	134. 4	37.0	(1)	5	
Louisiana:			1		0110	1	1	
May 1929	89	. 502		100.0	61.7		10	
May 1933	81	. 523	+4.2	104. 2	49.5	-19.8	8	
November 1933	110	. 689	+31.7	137. 3	37.7	-23.8	6	
May 1934	135	.742	+7.7	147.8	37.1	-1.6	1	
July 1934	137	. 745	+.4	148. 4	37.3	+.5	1	
New York and Pennsylvania:		1.000				1.0	1	
May 1929	84	. 612		100.0	51.1		10	
May 1933	98	. 501	-18.1	81.9	48. 5	-5.1	1	
November 1933	104	. 712	+42.1	116.3	36.5	-24.7	1	
May 1934	112	. 735	+3.2	120, 1	36, 8	+.8	1	
July 1934	110	. 744	+1.2	121.6	36, 7	3	1	
Oklahoma:								
May 1929	994	. 548		100.0	60.0		16	
May 1933	541	. 483	-11.9	88. 1	68.3	+13.8	1	
November 1933	629	. 691	+43.1	126. 1	38. 2	-44.1	1	
May 1934	657	. 726	+5.1	132. 5	37. 2	-2.6	1	
July 1934	677	.740	+1.9	135.0	37. 4	+.5	1	
Texas:					1			
May 1929	589	. 727		100.0	63.1	******	10	
May 1933	548	. 604	-16.9	83. 1	53.8	-14.7	1	
November 1933	711	. 754	+24.8	103.7	39.5	-26.6	1	
May 1934	794	. 779	+3.3	107. 2	36.7	-7.1		
July 1934	808	. 806	+3.5	110.9	36, 4	8		

¹ No change.

Average Hourly Earnings

The 38,372 employees covered by the survey, in establishments engaged in drilling and the production of petroleum, earned an average of 77.9 cents per hour in 1934. In the pipe-line branch of the industry the hourly earnings during the same period averaged 77.4 cents. When compared with the average hourly earnings for other nonmanufacturing industries, the average for drilling and production employees ranks high, as the average hourly earnings ¹⁰ in anthracite mining in August 1934 were 83.0 cents; in bituminous coal mining, 71.8 cents; in metalliferous mining, 55.7 cents; in the telephone and telegraph industry, 71.9 cents; and in the electric light and power and manufactured-gas industry, 77.2 cents.

The extent to which average hourly earnings varied among the workers covered is shown in the frequency distribution in table 2.

¹⁶ Computed by the Bureau's Employment Division from monthly employment reports.

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Only 1.3 percent of the total number of employees earned less than 42.5 cents per hour; and 5.4 percent received 42.5 and under 52.5 cents per hour, the range which includes the minima for common labor set in the code. Those earning 52.5 and under 72.5 cents per hour included 26.7 percent or slightly more than one-fourth of the total.

Almost one-half (46.9 percent) earned an average of 72.5 and under 87.5 cents. Nearly one-fifth (19.7 percent) earned 87.5 cents or over per hour, and of these almost half received \$1 or over per hour.

Table 2.—Number and Percent of Drilling and Production Employees Receiving Classified Average Hourly Earnings, 1934

Average hourly earnings	Number of employees	Simple per- centage	Cumulative percentage
Under 42 5 cents	496	1.3	1.3
42.5 and under 47.5 cents	351	. 9	2. 2 6. 7
47.5 and under 52.5 cents.	1, 741	4.5	6. 7
52.5 and under 57.5 cents.	997	2,6	9. 3
57.5 and under 62.5 cents	2, 030	5. 3	. 14.6
62.5 and under 67.5 cents	2, 960	7.7	22. 3
67.5 and under 72.5 cents.	4, 256	11.1	33.
72.5 and under 77.5 cents	8, 821	23. 1	56. 3
77.5 and under 82.5 cents	5, 146	13. 4	69. 9
82.5 and under 87.5 cents.	3, 987	10, 4	80.
87.5 and under 92.5 cents	2,042	5. 3	85. (
92.5 cents and under \$1	1,834	4.8	90,
31 and under \$1.10	1, 355	3.5	93.
\$1.10 and over	2, 356	6.1	100.0

Among the 14 specific occupations covered in this part of the survey, roustabouts and laborers received on the average the least, 66.4 cents per hour, and rotary drillers the most, \$1.321.12 Cable drillers earned an average of \$1.017 12 per hour, and clean-out drillers 94.6 cents. Rig builders received an average of \$1.003 per hour, while tool dressers' earnings amounted to 85.8 cents per hour. The hourly earnings of pumpers were 71 cents, or approximately 7 cents less than the average for the industry branch as a whole. Truck drivers received on the average 74.3 cents per hour. The average hourly earnings of the remaining occupations ranged from 78.7 to 81.2 cents per hour. 13

A distribution of employees by average earnings per hour for eight of the leading occupations—cable drillers, rotary drillers, rotary drillers' helpers, pumpers, rig builders, roustabouts and laborers, tool dressers, and truck drivers—is shown in table 3, which permits

¹¹ Code rates for common labor ranged from 45 to 52 cents per hour according to geographical division, but did not apply to "substandard" workers.

¹² Code rates for rotary tool drillers and cable tool drillers were \$1.25 and \$1 per hour, respectively, and for rotary tool helpers and cable tool helpers 75 and 87.5 cents per hour, respectively. In certain approved cases a 15-percent reduction could be permitted in areas not exceeding 2,500 feet in depth and a 25-percent reduction in areas not exceeding 1,000 feet in depth.

¹³ The actual average earnings per hour for these occupations were 79.0 cents for clean-out drillers' helpers, 79.5 cents for air and gas lift engineers, 79.9 cents for casing pullers, 81.2 cents for rotary drillers' helpers, 81.1 cents for gagers, and 78.7 cents for stillmen and dehydrators,

of a more detailed comparison than can be secured from general occupational averages.

Employees earning less than 42.5 cents per hour were concentrated in four occupations, namely rotary drillers' helpers, pumpers, roustabouts and laborers, and truck drivers, but in none of these occupations did they form more than a very small proportion of the total. In the group receiving 42.5 and under 52.5 cents per hour were found 0.2 percent of the rotary drillers' helpers, 5.1 percent of the pumpers, 2.3 percent of the rig builders, 14.6 percent of the roustabouts and laborers, 0.1 percent of the tool dressers, and 4.9 percent of the truck drivers. The percentage for roustabouts and laborers indicates that only a small proportion even of the unskilled workers were paid the minimum rates set by the code. There were no employees receiving less than 52.5 cents per hour among the cable drillers and rotary drillers.

The majority of all employees in these occupations, with the exception of cable drillers, rotary drillers, rig builders, and roustabouts and laborers, earned 72.5 cents and under \$1 per hour. These percentages in the various occupations were 38.8 for cable drillers, 1.8 for rotary drillers, 91.5 for rotary drillers' helpers, 58.2 for pumpers, 31.9 for rig builders, 35.5 for roustabouts and laborers, 78.3 for tool dressers, and 66.8 for truck drivers.

Very few employees other than cable drillers, rotary drillers, and rig builders made \$1 or over per hour. In the case of cable drillers, over one-half or 59 percent earned \$1 or over per hour, and 34.8 percent earned \$1 and under \$1.10 per hour. Nearly 90 percent of the rotary drillers earned between \$1.20 and \$1.50 per hour, the largest group, 38.8 percent, earning between \$1.30 and \$1.40 per hour. Forty-five percent of all rig builders earned between \$1 and \$1.30 per hour, with 18.9 percent earning between \$1.20 and \$1.30 per hour.

The average hourly earnings among the remaining groups were 86 cents for skilled construction, maintenance, and power employees, 74.3 cents for semiskilled construction, maintenance, and power employees, 82.5 cents for supervisory field employees, 95.3 cents for supervisory office employees, 81.2 cents for nonsupervisory office employees, and 69.2 cents for miscellaneous labor.

Table 3.—Distribution of Employees in 8 Important Occupations in Oil Drilling and Production by Average Hourly Earnings, 1934

entertor O' Inhoms	Drillers	, cable	Drillers	rotary	Drillers, help		Pum	pers
Average hourly earnings	Simple percent- age	Cumu- lative percent- age	Simple percentage	Cumu- lative percent- age	Simple percent- age	Cumu- lative percent- age	Simple percent- age	Cumu- lative percent- nge
Under 42.5 cents					(1)	(1)	2.8	2.8
12.5 and under 47.5 cents					(1) .	(1)	1.5	4.3
					0.2	0.2	3.6	7.9
2.5 and under 57.5 cents					. 3	. 5	2.0	9.1
2.5 and under 69 5 cents	0, 2	0, 2	****		.5	1.0	7.1	17.
7.5 and under 62.5 cents		.2	******		1.6	2.6		
2.5 and under 67.5 cents		2.2					8.6	25.
7.5 and under 72.5 cents	2.0 4.2	2.2	0.0	0.0	2.4	5.0	15.0	40.
2.5 and under 77.5 cents		6.4	0.2	0. 2	36. 9	41.9	27.5	68.
7.5 and under 82.5 cents	1.4	7.8	.2	.4	17. 4	59. 3	19.0	87.
2.5 and under 87.5 cents	12.8	20, 6	.4	.8	18. 9	78. 2	9.7	. 96.
7.5 and under 92.5 cents	8.4	29, 0	.1	.9	11.0	89. 2	. 9	97.
2.5 cents and under \$1	12.0	41.0	. 9	1.8	7.3	96. 5	1.1	98.
1 and under \$1.10	34.8	75. 8 83. 7	2.1	3.9	3.0	99. 5	.7	99.
1.10 and under \$1.20	7.9	83. 7	3.0	6. 9	. 3	99.8	. 2	99.
1.20 and under \$1.30	8.1	91.8	29. 7	36. 6	.1	99. 9	. 1	99,
1.30 and under \$1.40	6. 4	98. 2	38, 8	75. 4	(1)	99. 9	. 1	99,
1.40 and under \$1.50	1.6	99.8	19.7	95. 1	.1	100.0	(1)	99.
\$1.50 and over	.2	100.0	4.9	100.0	(1).1	100.0	.1	100.
	Rig builders		Roustabouts and laborers		Tool dressers		Truck driver	
Average hourly earnings	Simple percent- age	Cumu- lative percent age	percent		percent		percent	Cumu lative percen age
			111	1.3			0.6	0.
Under 42.5 cents			1.3	1.0				1
2.5 and under 47.5 cents	0, 6	0.6	1.3	2.6			. 9	
2.5 and under 47.5 cents	0.6	0.6	1.3	2.6		0. 1	4.0	5
12.5 and under 47.5 cents	1.7	2.3	1. 3 13. 3	2. 6 15. 9	0. 1	0. 1	4.0	
12.5 and under 47.5 cents	1.7	2.3 3.8	1. 3 13. 3 5. 8	2. 6 15. 9 21. 7	0.1	.5	1.8	7
12.5 and under 47.5 cents	1.7 1.5 2.9	2. 3 3. 8 6. 7	1. 3 13. 3 5. 8 9. 9	2. 6 15. 9 21. 7 31. 6	0. 1 . 4 2. 6	3.1	4.0 1.8 5.7	13
12.5 and under 47.5 cents	1.7 1.5 2.9 3.7	2. 3 3. 8 6. 7 10. 4	1. 3 13. 3 5. 8 9. 9 15. 4	2. 6 15. 9 21. 7 31. 6 47. 0	0. 1 . 4 2. 6 4. 0	3. 1 7. 1	4. 0 1. 8 5. 7 10. 1	13 23
12.5 and under 47.5 cents	1.7 1.5 2.9 3.7 4.6	2. 3 3. 8 6. 7 10. 4 15. 0	1. 3 13. 3 5. 8 9. 9 15. 4 17. 5	2. 6 15. 9 21. 7 31. 6 47. 0 64. 5	0. 1 . 4 2. 6 4. 0 1. 3	3. 1 7. 1 8. 4	4. 0 1. 8 5. 7 10. 1 9. 3	13 23 32
12.5 and under 47.5 cents 17.5 and under 52.5 cents 17.5 and under 57.5 cents 17.5 and under 62.5 cents 17.5 and under 67.5 cents 17.5 and under 72.5 cents 17.5 and under 77.5 cents 17.5 cents 17.	1.7 1.5 2.9 3.7 4.6 4.4	2. 3 3. 8 6. 7 10. 4 15. 0 19. 4	1. 3 13. 3 5. 8 9. 9 15. 4 17. 5 25. 5	2. 6 15. 9 21. 7 31. 6 47. 0 64. 5 90. 0	0. 1 .4 2. 6 4. 0 1. 3 20. 0	3. 1 7. 1 8. 4 28. 4	4. 0 1. 8 5. 7 10. 1 9. 3 24. 7	7 13 23 32 57
12.5 and under 47.5 cents	1.7 1.5 2.9 3.7 4.6 4.4	2.3 3.8 6.7 10.4 15.0 19.4 19.8	1. 3 13. 3 5. 8 9. 9 15. 4 17. 5 25. 5 5. 5	2. 6 15. 9 21. 7 31. 6 47. 0 64. 5 90. 0 95. 5	0. 1 . 4 2. 6 4. 0 1. 3 20. 0 7. 9	3. 1 7. 1 8. 4 28. 4 36. 3	4. 0 1. 8 5. 7 10. 1 9. 3 24. 7 17. 0	7 13 23 32 57 74
12.5 and under 47.5 cents	1.7 1.5 2.9 3.7 4.6 4.4 .4	2.3 3.8 6.7 10.4 15.0 19.4 19.8 21.7	1. 3 13. 3 5. 8 9. 9 15. 4 17. 5 25. 5 5. 5 3. 8	2. 6 15. 9 21. 7 31. 6 47. 0 64. 5 90. 0 95. 5 99. 3	0. 1 2. 6 4. 0 1. 3 20. 0 7. 9 11. 3	. 5 3. 1 7. 1 8. 4 28. 4 36. 3 47. 6	4. 0 1. 8 5. 7 10. 1 9. 3 24. 7 17. 0 15. 7	7 13 23 32 57 74 89
12.5 and under 47.5 cents	1.7 1.5 2.9 3.7 4.6 4.4 1.9 1.5	2. 3 3. 8 6. 7 10. 4 15. 0 19. 4 19. 8 21. 7 23. 2	1. 3 13. 3 5. 8 9. 9 15. 4 17. 5 25. 5 5. 5 3. 8	2. 6 15. 9 21. 7 31. 6 47. 0 64. 5 90. 0 95. 5 99. 3	0, 1 . 4 2, 6 4, 0 1, 3 20, 0 7, 9 11, 3 25, 6	. 5 3. 1 7. 1 8. 4 28. 4 36. 3 47. 6	4. 0 1. 8 5. 7 10. 1 9. 3 24. 7 17. 0 15. 7 6. 2	7 13 23 32 57 74 89
12.5 and under 47.5 cents 17.5 and under 52.5 cents 12.5 and under 57.5 cents 12.5 and under 62.5 cents 13.5 and under 67.5 cents 17.5 and under 72.5 cents 17.5 and under 77.5 cents 17.5 and under 82.5 cents 18.5 and under 87.5 cents 18.5 and under 87.5 cents 18.5 and under 87.5 cents 18.5 and under 87.5 cents	1.7 1.5 2.9 3.7 4.6 4.4 1.9 1.5 23.7	2. 3 3. 8 6. 7 10. 4 15. 0 19. 4 19. 8 21. 7 23. 2 46. 9	1. 3 13. 3 5. 8 9. 9 15. 4 17. 5 25. 5 5. 5 3. 8 6	2. 6 15. 9 21. 7 31. 6 47. 0 64. 5 90. 0 95. 5 99. 3 99. 9	0.1 .4 2.6 4.0 1.3 20.0 7.9 11.3 25.6 13.5	. 5 3. 1 7. 1 8. 4 28. 4 36. 3 47. 6 73. 2 86. 7	4. 0 1. 8 5. 7 10. 1 9. 3 24. 7 17. 0 15. 7 6. 2 3. 2	7 13 23 32 57 74 89 96
12.5 and under 47.5 cents	1. 7 1. 5 2. 9 3. 7 4. 6 4. 4 1. 9 1. 5 23. 7	2. 3 3. 8 6. 7 10. 4 15. 0 19. 4 19. 8 21. 7 23. 2 46. 9 59. 3	1. 3 13. 3 5. 8 9. 9 15. 4 17. 5 25. 5 5. 5 3. 8 . 6	2. 6 15. 9 21. 7 31. 6 47. 0 64. 5 90. 0 95. 5 99. 3 99. 9 100. 0 100. 0	0.1 .4 2.6 4.0 1.3 20.0 7.9 11.3 25.6 13.5	.5 3.1 7.1 8.4 28.4 36.3 47.6 73.2 86.7 98.0	4. 0 1. 8 5. 7 10. 1 9. 3 24. 7 17. 0 15. 7 6. 2 3. 2	7 13 22 32 57 74 89 96
12.5 and under 47.5 cents	1. 7 1. 5 2. 9 3. 7 4. 6 4. 4 1. 9 1. 5 23. 7 12. 4 13. 7	2. 3 3. 8 6. 7 10. 4 15. 0 19. 4 19. 8 21. 7 23. 2 46. 9 50. 3 73. 0	1. 3 13. 3 5. 8 9. 9 15. 4 17. 5 25. 5 5. 5 3. 8 . 6 (1)	2. 6 15. 9 21. 7 31. 6 47. 0 64. 5 90. 0 95. 5 99. 3 99. 9 100. 0 100. 0	0.1 .4 2.6 4.0 1.3 20.0 7.9 11.3 25.6 11.3 1.9	5 3. 1 7. 1 8. 4 28. 4 36. 3 47. 6 6 73. 2 86. 7 99. 9	4. 0 1. 8 5. 7 10. 1 9. 3 24. 7 17. 0 15. 7 6. 2 3. 2	7 13 23 32 57 74 89 96 96
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42.5 and under 47.5 cents. 47.5 and under 52.5 cents. 52.5 and under 57.5 cents. 57.5 and under 62.5 cents. 62.5 and under 67.5 cents. 62.5 and under 77.5 cents. 77.5 and under 77.5 cents. 77.5 and under 82.5 cents. 82.5 and under 87.5 cents. 82.5 and under 87.5 cents. 82.5 and under 81.20 cents. 81.10 and under \$1.10. 81.10 and under \$1.20. 81.20 and under \$1.30. 81.30 and under \$1.40.	1. 7 1. 5 2. 9 3. 7 4. 6 4. 4 1. 9 1. 5 23. 7 12. 4 13. 7 18. 9 6. 0	2. 3 3. 8 6. 7 10. 4 15. 0 19. 4 19. 8 21. 7 23. 2 46. 9 59. 3 73. 0 91. 9 97. 9	1. 3 13. 3 5. 8 9. 9 15. 4 17. 5 25. 5 5. 5 3. 8 . 1 (1)	2. 6 15. 9 21. 7 31. 6 47. 0 64. 5 90. 0 95. 5 99. 3 99. 9 100. 0 100. 0 100. 0	0, 1 -4 2, 6 4, 0 1, 3 20, 0 7, 9 11, 3 25, 6 13, 5 11, 3 1, 9	5 3. 1 7. 1 8. 4 28. 4 36. 3 47. 6 6 73. 2 86. 7 99. 9	4. 0 1. 8 5. 7 10. 1 9. 3 24. 7 17. 0 15. 7 6. 2 3. 2	7 13 23 32 57 74 89 96 99 99
Under 42.5 cents 42.5 and under 47.5 cents 42.5 and under 52.5 cents 52.5 and under 57.5 cents 52.5 and under 57.5 cents 62.5 and under 62.5 cents 62.5 and under 67.5 cents 67.5 and under 72.5 cents 67.5 and under 77.5 cents 67.5 and under 82.5 cents 82.5 and under 82.5 cents 82.5 and under 82.5 cents 82.5 and under 87.5 cents 81.5 and under 81.10 81.10 and under \$1.10 81.10 and under \$1.30 81.30 and under \$1.40 81.40 and under \$1.50 81.40 and under \$1.50	1. 7 1. 5 2. 9 3. 7 4. 6 4. 4 1. 9 1. 5 23. 7 12. 4 13. 7 18. 9 6. 0	2. 3 3. 8 6. 7 10. 4 15. 0 19. 4 19. 8 21. 7 23. 2 46. 9 59. 3 73. 0 91. 9 97. 9 98. 3	1. 3 13. 3 5. 8 9. 9 15. 4 17. 5 25. 5 5. 5 3. 8 . 6 . 1 (1)	2. 6 15. 9 21. 7 31. 6 47. 0 64. 5 90. 0 95. 5 99. 3 99. 9 100. 0 100. 0	0, 1 -4 2, 6 4, 0 1, 3 20, 0 7, 9 11, 3 25, 6 13, 5 11, 3 1, 9	5 3. 1 7. 1 8. 4 28. 4 36. 3 47. 6 6 73. 2 86. 7 99. 9	4. 0 1. 8 5. 7 10. 1 9. 3 24. 7 17. 0 15. 7 6. 2 3. 2 . 3	7 13 23 32 57 74 89 96 96 96 96

¹ Less than 1/10 of 1 percent.

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Average hourly earnings were lowest in the States east of the Mississippi River. This area is commonly known as "stripper" territory. The average earnings per hour for employees in these States were as follows: Illinois, Indiana, Michigan, and Ohio, 66.5 cents; Kentucky and West Virginia, 56.5 cents; and New York and Pennsylvania, 68.5 cents. The highest average hourly earnings other than those of workers in what has been termed the "Other Texas"

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region ¹⁴ (96.2 cents), practically all of whom were doing rig building and rotary drilling work, were 85.6 cents for employees in California. The average earnings per hour for other important producing States or regions were 78.5 cents for Louisiana, 75.2 cents for Oklahoma, 81.6 cents for east Texas, and 84.6 cents for Gulf Coast Texas. The average earnings per hour for the remaining regions were: Arkansas, 70.8 cents; Colorado, Montana, New Mexico, and Wyoming, 77.5 cents; Kansas, 70.4 cents; central Texas, 77.1 cents; north Texas, 72.1 cents; Panhandle Texas, 74.3 cents; southwest Texas, 78.5 cents; and west Texas, 81.4 cents.

The average hourly earnings for specific occupations and occupational groups by States or regions are shown in table 4. It may be seen from this table that the average earnings of pumpers, an occupation found in all States and regions except one, ranged from a low of 53.7 cents per hour for Kentucky and West Virginia to a high of 79.1 cents in California. The earnings per hour of this occupation in the other eastern States were 58.0 cents for Illinois, Indiana, Michigan, and Ohio, and 67.2 cents for New York and Pennsylvania. latter average is slightly higher than the earnings for this occupation in Kansas and central Texas and not far below the average of 70.5 cents for pumpers in Colorado, Montana, New Mexico, and Wyoming. 69.9 cents for Oklahoma, 69.3 cents for north Texas, and 68.3 cents for Panhandle Texas. The averages for the other States or regions were 73.2 cents for Arkansas, 72.6 cents for Louisiana, 76.9 cents for east Texas, 78.3 cents for Gulf Coast Texas, 74.9 cents for southwest Texas, and 74.1 cents for west Texas.

Roustabouts and laborers earned an average of 49.3 cents per hour in Kentucky and West Virginia as compared to 55.7 cents for Illinois, Indiana, Michigan, and Ohio. These averages are influenced by the wage provisions of the code, which set the minimum common-labor rate at 45 cents in Kentucky and West Virginia and 52 cents in Illinois, Indiana, Michigan, and Ohio. The highest hourly earnings for this occupation were found in Louisiana and Gulf Coast Texas, where they were 74.1 cents and 73.6 cents respectively.

¹⁴ I. e., employees working in various parts of the State who could not be allocated to any one district. The districts in Texas as used in this report, with the exception of "Other Texas," are those used in the Bureau of Mines reports.

Table 4.—Average Hourly Earnings by Occupations and by Regions, 1934

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Occupation or occupational group		kan- sas	Cali- fornia	Colorado, Montana, New Mexico and Wyo- ming	d d	Illi- nois, In- iana, Mich- gan, and Ohio	Kan- sas	Ken- tucky and West Vir- ginia	Louisi- ana	New York and Penn- syl- vania
All occupations	\$0.	708	\$0,856	\$0, 775	\$	0. 665	\$0.704	\$0, 565	\$0.785	\$0, 685
Air and gas lift engineers Casing pullers Drillers, cable Drillers, clean-out Drillers, clean-out, helpers Drillers, rotary Drillers, rotary Prillers, rotary By illers Rig builders Roustabouts and laborers Stillmen and dehydrators Tool dressers Truck drivers Construction, maintenance, and powemployees, skilled Construction, maintenance, and powemployees, semiskilled Supervisory employees, field Supervisory employees, office Miscellaneous labor	ver	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	. 847 . 803 (1) (2) (1) 1. 329 . 885 . 912 . 791 1. 040 . 689 . 860 . 958 . 807 . 892 . 768 . 973 1. 025 . 838	. 82(1) 1. 040(1) 1. 040(1) 1. 25(1) 778(1) 705(1) 672 676 . 897 . 712 . 857 . 788 . 887(1) (1) (1) (1)		(1) (1) .971 (1) (1) (2) (1) (2) .580 (2) .557 (1) .852 .597 (1) (1) (1) (1)	(1) (2) 1.018 (1) (1) 1.280 .750 (1) .666 (1) .873 .662 (1) (1) .646 (1) .646	.644 (1) (1) (1) .736 .645 (2) (3) (4) .537 (1) .493 .675 (1) (1) (1) (1) (1) (1) (1) (1)	(t) (d) (t) (t) (t) (t) 1. 326 .770 (t) .726 (t) .741 .794 (t) .691 .902 .685 .809 (t) .823	. 660 (1) . 861 . 861 (2) . (2) (2) . (3) (4) . (4) . 626 (1) . 746 . 722 . 850 (1) . (656 (1) . (656
Occupation or occupational group	Okla- homa	Ce	al To	ast G	ulf	North		west	Toyog	Other Texas
All occupations	\$0.752	\$0.7	771 \$0.	816 \$0.	846	\$0.721	\$0.743	\$0. 785	\$0.814	\$0.962
Air and gas lift engineers Casing pullers Drillers, cable Drillers, clean-out Drillers, clean-out, helpers Drillers, rotary Drillers Gagers Roustabouts Roustabouts and laborers Stillmen and dehydrators Truck drivers Construction, maintenance, and	(1) 1.040 1.005 . 820 1.280 . 784 (1) . 699 . 986 . 676 . 770 . 881	1.3	2) (1) (2) (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	1) 1) 1) 347 1. 812 708 . 769 . 272 . 690 . 1) 1)	(1) (2) (2) (2) (1) 353 794 822 783 872 736 (2) (2) 825	.812 (1) .993 (1) (1) 1.259 .740 (2) .693 (2) .639 (4) .825 .729	(a) (b) (c) (c) (d) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	(1) (2) (1) (1) (1) 1. 243 751 (1) 749 (1) 666 (2) (2) 685	(1) .741	(3) (2) (2) (2) (3) (1)

¹ Not a sufficient number reported to present averages.

During the period 1920 to 1934 the average earnings per hour of all employees in this industry branch increased 13.4 percent, rising from 68.7 cents to 77.9 cents. In the four States ¹⁵ included in the 1929 survey, average hourly earnings rose from 64.7 ¹⁶ to 80.2 cents, an increase of 24 percent.

A distribution of all employees, by average earnings per hour for the years 1920 and 1934, is shown in table 5. The class intervals in this table are those used in the 1920 study and are broader than those

² None reported.

¹⁸ California, Louisiana, Oklahoma, and Texas.

¹⁶ This figure includes certain allowances for payments in kind, such as use of company houses, board, etc.

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shown in earlier tables for 1934 alone. When the 1934 figures are compared with those for 1920 they show that there was little change during the 15-year period in the percentage of employees earning less than 40 cents per hour. However, if the amount is raised to include those earning under 50 cents per hour it can be seen that the percentage decreased by slightly over 60 percent between 1920 and While this shift may have taken place between 1920 and 1929. it is more likely that it occurred later as a result of the minimum rates established by the code, as all of the larger producing States other than California are located in geographical regions which had code minimum wage rates of 48 cents. Fifty-eight percent of all employees in 1920 earned 50 and under 70 cents per hour, while in 1934 slightly over that proportion earned 70 and under 90 cents per hour. There was very little change between the two periods in the proportion of workers earning \$1 or over per hour, the percentages being 11.9 in 1920 and 9.7 in 1934.

Table 5.—Distribution of Employees in Oil Drilling and Froduction According to Average Hourly Earnings in 1920 and 1934

	19	920	1934		
Average hourly earnings	Simple percentage	Cumulative percentage	Simple percentage	Cumulative percentage	
Under 30 cents	0.1	0.1	0.2	0.5	
30 and under 35 cents	1.3	1.5	.3	i	
40 and under 45 cents	5. 2	6.7	.7	1.	
45 and under 50 cents	26.9	10.7 37.6	2.5 7.0	4.	
60 and under 70 cents	31, 1	68.7	14.0	25.	
70 and under 80 cents	11.6	80.3	37.5	62.	
80 and under 90 cents	6.1	86.4	20.9	83.	
90 cents and under \$1	1.7	88.1	6.7	90.	
\$1 and under \$1.25		95. 4	5.4	95.	
\$1.25 and under \$1.50 \$1.50 and over	4.1	99. 5	3.9	99. 100.	

Average Weekly Hours

In the pay-roll period in August 1934 for which reports were received the average weekly hours of all employees in this industry branch were 36.2. Table 6 shows the distribution of these workers according to the hours worked during the pay-roll period covered.

In examining this table the labor provisions of the code should be kept in mind. As applied to drilling and production employees, the code stated: "The maximum hours for clerical workers shall not exceed 48 hours in any 1 week nor more than 80 hours in any 2 weeks." It also declared: "Employees on drilling operations other than clerical employees may work not more than 8 hours in any 1 day nor more than 48 hours in any 1 week, nor more than an average of 36 hours per week for any 26 consecutive calendar weeks; provided that such employees may work more than 8 hours in any 1 day, but not more

than 16 hours in any 2 days, if the conditions are such that relief is impracticable." It further stated: "All other employees * * * except executives, supervisors and their immediate staffs, and pumpers on 'stripper' wells and employees on isolated properties, shall work not more than 40 hours in any 1 week, nor more than 72 hours in any 2 weeks nor more than 16 hours in any 2 days." 17

Table 6 shows that 13.3 percent of all employees worked a week of less than 32 hours. It may also be seen that almost one-third, or 30.5 percent, worked a week of 36 and under 40 hours. The greater part of the latter group worked the 36-hour week which was common in many of the larger firms. Likewise, a large proportion of the 18.9 percent included in the group working 32 and under 36 hours had a 32-hour week, and a considerable part of the 24.6 percent in the 40 and under 44-hour group had a 40-hour week. This is explained by the practice in some firms of operating their plants on the basis of 32 hours 1 week and 40 hours the next, instead of a straight 36-hour week. Almost 13 percent of all the employees worked a week of 44 hours or over. This class of workers was composed mostly of members of drilling crews, pumpers, roustabouts, and field supervisory employees.

The 14 occupations covered in the table may be classified into 3 general groups on the basis of the average hours worked per week. The first group embraces those below 34 hours, the second those above 35 and below 37 hours, and the third those 37 hours and above.

In the first group were found rig builders (30.4 hours), clean-out drillers' helpers (33.6 hours), and roustabouts and laborers (33.8 hours). These low averages are explained by the fluctuations in the amount of work available for these employees. The second group consisted of casing pullers (35.1 hours), stillmen and dehydrators (35.9 hours), truck drivers (36.1 hours), air and gas lift engineers and pumpers (36.5 hours), and rotary drillers' helpers (36.6 hours). The third group consisted mainly of occupations in drilling operation—clean-out drillers (37.2 hours), gagers (37.8 hours), rotary drillers and tool dressers (38.2 hours), and cable drillers (39.3 hours). The drilling crews, being permitted to work up to 48 hours a week under the code, naturally had the highest average.

Table 6.—Distribution of Drilling and Production Employees According to Weekly Hours, 1934

Weekly hours	Number of employees	Simple percentage	Cumulative percentage
Under 16 hours	1, 510	3.9	3.1
16 and under 32 hours	3, 592	9.4	13.
32 and under 36 hours	7, 241	18. 9	32. 2
36 and under 40 hours	11, 683	30. 5	62.7
40 and under 44 hours	9, 457	24. 6	87.
44 hours and over	4, 889	12.7	100.

¹⁷ Executives and supervisors receiving less than \$35 per week were later included under this provision but, on the other hand, "substandard workers" were exempted.

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The distribution of employees by average weekly hours for the eight leading occupations are shown in table 7. With the exception of pumpers and rig builders, there was considerable uniformity in the distribution among the various occupations. As would be expected, in view of the prevalence of the straight 36-hour week and the continuity of pumping operations, a large proportion (49.4 percent) of the pumpers worked a week of 36 and under 40 hours. Among the rig builders, 22.5 percent worked a week of 16 and under 32 hours, this percentage reflecting the intermittent character of this type of work.

The average hours worked per week by the remaining occupational groups were 36.1 for skilled construction, maintenance, and power employees; 34.5 for semiskilled construction, maintenance, and power employees; 41.7 for field supervisory employees; 39.6 for office supervisory employees; 38.6 for nonsupervisory office workers; and 37 for miscellaneous labor.

The greater number of hours for supervisory field and supervisory and nonsupervisory office employees reflects the higher minimum hours permitted this class of employees under the code.

Table 7.—Distribution of Drilling and Production Employees in 8 Important Occupations by Weekly Hours, 1934

words made have	Driller	s, cable	Drillers	, rotary		, rotary, pers	Pun	pers
Weekly hours	Simple percent- age	Cumu- lative percent- age	Simple percent- age	Cumu- lative percent- age	Simple percent- age	Cumu- lative percent- age	Simple percent- age	Cumu- lative percent- age
Under 16 hours	4. 7 11. 2 8. 9 13. 1 24. 1 38. 0	4. 7 15. 9 24. 8 37. 9 62. 0 100. 0	3. 5 11. 1 18. 6 13. 7 27. 6 25. 5	3. 5 14. 6 33. 2 46. 9 74. 5 100. 0	6. 7 13. 3 16. 5 13. 8 27. 0 22. 7	6. 7 20. 0 36. 5 50. 3 77. 3 100. 0	1. 2 6. 2 17. 5 49. 4 18. 4 7. 3	1. 2 7. 4 24. 6 74. 3 92. 7 100. 6
too bis milliter	Rig b	uilders		outs and orers	Tool d	lressers	Truck	drivers
Weekly hours	Simple percent- age	Cumu- lative percent- age	Simple percentage	Cumu- lative percent- age	Simple percent- age	Cumu- lative percent- age	Simple percent- age	Cumulative percentage
Under 16 hours 16 and under 32 hours 32 and under 36 hours 36 and under 40 hours 40 and under 44 hours 44 hours and over	17. 8 22. 5 12. 4 12. 9 20. 7 13. 7	17. 8 40. 3 52. 7 65. 6 86. 3 100. 0	6. 3 11. 7 19. 9 34. 3 21. 9 5. 9	6. 3 18. 0 37. 9 72. 2 94. 1 100. 0	4. 1 14. 3 11. 7 12. 5 24. 1 33. 3	4. 1 18. 4 30. 1 42. 6 66. 7 100. 0	3. 2 9. 0 23. 1 28. 0 24. 5 12. 2	3. 12. 35. 63. 87. 100.

While there was a tendency for the States in the "stripper" territory to have the highest average weekly hours, there was not a great amount of variation among the several States and regions. The averages were as follows: Arkansas, 36.4 hours; California, 35.4 hours; Colorado, Montana, New Mexico, and Wyoming, 38.9 hours;

Illinois, Indiana, Michigan, and Ohio, 38.4 hours; Kansas, 36.3 hours; Kentucky and West Virginia, 36.9 hours; Louisiana, 36.2 hours; New York and Pennsylvania, 36.9 hours; Oklahoma, 35.6 hours; central Texas, 37.5 hours; east Texas, 36.0 hours; Gulf Coast Texas, 36.3 hours; north Texas, 36.4 hours; Panhandle Texas, 38.7 hours; southwest Texas, 36.8 hours; west Texas, 36.1 hours, and "Other Texas", 35.2 hours.

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As among the several occupations, the highest average weekly hours were 50.1 for supervisory field employees in Kansas and the lowest were 22.5 for rig builders in Oklahoma. The averages by occupations and occupational groups for each of the States and regions covered are presented in table 8.

The average weekly hours of all employees in this branch of the petroleum industry are not available for 1920, as the Bureau did not attempt in that survey to secure the hours worked in 1 week from plants that paid at less frequent intervals. In 1929, however, the Bureau secured actual hours worked in 1 week from all plants covered. The average shown in that year was 58.0 hours and may be compared with 36.0 hours for the same States in 1934—a decline of 37.9 percent. 19

Table 8.—Average Weekly Hours of Drilling and Production Employees by Occupations and Regions, 1934

Occupation or occupational group	Arkan- sas	Cali- fornia	Colorado, Montana, New Mexico, and Wyo- ming	Illi- nois, Indi- ana, Michi- gan, and Ohio	Kansas	Ken- tucky and West Vir- ginia	Loui- siana	New York and Penn- syl- vania
All occupations	36. 4	35. 4	38. 9	38. 4	36. 3	36. 9	36, 2	36.1
Air and gas lift engineers	(3)	35. 8	36. 1	(1)	(1)	38. 7	(1)	40, 6
Casing pullers		35. 1	(1)	(1)	(3)	(1)	(3)	(1)
Orillers, cable Orillers, clean-out		(1)	42.3	40.3	40.7	(-)	(1)	36.
Drillers, clean-out, helpers	1 23	83	1 83	83	83	39. 7 37. 0	83	(2)
Drillers, rotary		35. 1	48.8	1 22	38.3		38.0	13
Drillers, rotary. Drillers, rotary, helpers	33. 9	34. 5	44. 5	(3)	39. 3	(3)	36. 2	(2)
agers	(1)	37. 3	(0)	(2)	(1)	215	(1)	(3)
Pumpers		35. 2	39. 7	38.4	36. 2	37. 4	36. 2	36.
Rig builders		34. 2	(1)		(0)	(1)	(1)	(1)
Roustabouts and laborers	32.9	35, 1	33.7	37. 1	32.4	33. 7	33.7	36.
stillmen and dehydrators	(1)	34. 9	44.5	(1)	(1)	40.0	36.9	(1)
Fool dressers	(1)	36.3	43. 3	40. 2	40.4	(1)	(1)	36.
Fruck drivers	37.8	36, 0	38. 9	32.9	35.8	(1)	34.6	36.
Construction, maintenance, and	1100000	-			1		1	
power employees, skilled	(1)	35. 6	38. 1	(1)	(1)	(1)	37.0	37.
construction, maintenance, and		1		1	1		1 23	1
power employees, semiskilled	(1)	35. 4	35. 3	(3)	50, 1	(1)	35. 5	(1)
supervisory employees, field	48. 2	36. 6		45. 3	50. 1	40.3	43.9	43.
upervisory employees, office	(3)	40.0	(1)	(1)	(1)	(1)	(3)	(1)
Nonsupervisory employees, office		38.8		(1)	40.3	(1)	39. 5	39.
Miscellaneous labor	(1)	35. 6	(1)	(1)	39.6	(1)	36. 7	(1)

¹ Not sufficient number reported to present averages.

¹ None reported.

¹⁸ For plants that had pay-roll periods of more than 1 week the Bureau secured from such plants only the hours worked and earnings made by each individual for the pay-roll period covered, regardless of whether it was 10 days, 2 weeks, one-half month, or 1 month.

¹⁸ See March 1930 issue of Monthly Labor Review for the 1929 average weekly hours by State or region.

Table 8.—Average Weekly Hours of Drilling and Production Employees by Occupations and Regions, 1934—Continued

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Occupation or occupational group	Okla- homa	Cen- tral Texas	East Texas	Gulf Coast Texas	North Texas	Pan- handle Texas	South- west Texas	West Texas	Othe
All occupations	35. 6	37. 5	36.0	36, 3	36. 4	38. 7	36. 8	36. 1	35,
Air and gas lift engineers	35. 2	(1)	(1) (2) (1)	(1)	36.8	36, 8	(1)	(1)	(2)
Casing pullers	(1)	(1)	(3)	(2)	(1)	(3)	(1)	(1)	(2)
Drillers, cable	39. 1	(1)	(1)	(2)	43. 5	43.8	(2)	35, 6	(2)
Drillers, clean-out			(1)	(2)	(1)	35. 4	(1)	(1)	(2)
Drillers, clean-out, helpers	34. 0	(2)	(1)	(1)	(1)	(1)	(1)	(1)	(2)
Drillers, rotary	42.3	35. 8	37. 3	38. 0	40.4	(1)	43.3	(1)	(1)
Drillers, rotary, helpers	39.0	37. 1	36. 5	35. 7	38.4	44.9	38. 9	46. 9	41
dagers	(1)	(1)	41.0	35. 5	(3)	(1)	(1)	(1)	(2)
Pumpers	36. 3	39. 5	35. 4	36.7	37.1	37. 1	35. 1.	35. 9	(2)
Rig builder		(1)	24. 2	34. 5	(2)	(1)	(1)	(1)	30
Roustabouts and laborers	32.6	35. 7	34, 2	34. 5	32.3	35. 4	33. 4	33. 5	(1)
Stillmen and dehydrators	34.8	(1)	(1)	(1)	(3)	(2)	(2)	(1)	(2)
Tool dressers	37. 0	(1)	(2)	(2)	37.7	42.0	(3)	35, 2	(1)
Truck drivers	34. 9	35. 4	37. 1	36. 9	36. 0	39. 3	36. 4	36. 6	(1)
power employees, skilled	35. 1	35. 7	35. 1	39. 9	36.8	43.5	(1)	34. 2	(1)
Construction, maintenance, and	TUDE						''		1
power employees, semiskilled	34. 2	(1)	33.8	(1)	35. 2	(1)	(1)	31.5	(2
Supervisory employees, field	43.3	39.9	40. 6	41.5	43. 1	45. 4	36, 3	41.8	
Supervisory employees, office	(1)	(1)	(1)	(1)		(1)	(1)	(1)	(1
Nonsupervisory employees, office	36. 3	39. 5	41.1	41.5	(1)	(1)	(1)	39.0	(2
Miscellaneous labor	36. 3	(1)	38, 1	38. 4	44.0	39.9	(1)	36. 3	(1

¹ Not a sufficient number reported to present averages.

¹ None reported.

Average Weekly Earnings

EMPLOYEES during the period covered by this survey earned an average of \$28.22 per week. This figure compares with \$27.44 for pipe-line employees during the same period. The distribution of these employees by weekly earnings can be found in table 9. The earnings shown are what the employees made during the week covered and include part-time as well as full-time workers.

An examination of this table shows that 8.1 percent of all employees earned under \$16 during the week. The number earning \$16 and under \$24 constituted 19.8 percent, making a total of 27.9 percent receiving less than \$24 per week. The largest single group, or 26.9 percent, earned \$24 and under \$28. Almost 30 percent earned \$28 and under \$36 per week, while those earning \$36 and over amounted to nearly 16 percent. In the latter group are to be found most of the cable and rotary drillers, as well as a goodly number of rotary drillers' helpers, rig builders, and tool dressers. As the code shortened the hours per week in many instances, average weekly earnings do not reflect fully the increases which took place in average hourly earnings.

Table 9.—Distribution of Drilling and Production Employees According to Weekly Earnings, 1934

Weekly earnings	Number of	Simple	Cumulative
	employees	percentage	percentage
Under \$8	1, 222 1, 895 2, 253 5, 327 10, 354 7, 137 4, 098 2, 216	3. 2 4. 9 5. 9 13. 9 26. 9 18. 6 10. 7 5. 8 5. 6	3. 8. 14. 27. 54. 73. 84. 89.

Table 10, which shows the distribution of employees in 8 important occupations according to their weekly earnings, ends with the class of \$72 and over, while table 9 extends to only \$48 and over. The extra classes were added in order to show in greater detail the weekly earnings of cable and rotary drillers; of the employees in these two occupations 37.4 and 61.6 percent, respectively, earned \$48 or over per week.

When the several other occupations are considered, it will be seen that slightly over one-half of all roustabouts and laborers earned less than \$24 per week and that 83.2 percent of all pumpers earned \$20 and under \$32 per week.

The greatest percentage in any occupation earning under \$16 per week was 21.2 for rig builders, a skilled group with considerable numbers employed for short hours. The smallest percentage earning under \$16 was 3.4 percent for rotary drillers.

Table 10.—Distribution of Drilling and Production Employees in 8 Important Occupations by Weekly Earnings, 1934

A CANTES IN C	Driller	s, cable	Drillers	, rotary		rotary, pers	Pum	pers
Weekly earnings	Simple percent- age	Cumu- lative percent- age	Simple percentage	Cumu- lative percent- age	Simple percent- age	Cumu- lative percent- age	Simple percent- age	Cumu- lative percent- age
Under \$8 88 and under \$16	1.1	1.1	0.6	0.6	5. 5 6. 2	5. 5 11. 7	1.1	1. 3.
816 and under \$20	2.9	8.7	1.2	4.6	4.7	16.4	4.5	8.
\$20 and under \$24	2.3	11.0	2.5	7.1	4.5	20.9	18.7	27.
\$24 and under \$28	6.4	17.4	1.1	8.2	12.5	33.4	44.7	71.
128 and under \$32	5.4	22.8	2.3	10. 5	23.4	56.8	19.8	91.
32 and under \$36	14. 2	37.0	3.6	14.1	16.0	72.8	7.0	98.
840 and under \$48	7. 5 18. 1	62.6	2.5	16, 6 38, 4	13.5 11.8	86, 3 98, 1	.5	99.
48 and under \$56	26. 1	88.7	24.5	62.9	1.6	99.7	.1	100.
856 and under \$64.	10.0	98.7	20.1	83.0	.3	100.0	(1)	100.
\$64 and under \$72	. 5	99. 2	12,0	95.0	(1)	100.0	1 (1)	100.
\$72 and over	.8	100.0	5.0	100.0	8	100.0	(1)	100.

¹ Less than Ma of 1 percent.

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Table 10.—Distribution of Drilling and Production Employees in 8 Important Occupations by Weekly Earnings, 1934—Continued

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	Rig b	uilders		outs and orers	Tool d	lressers	Truck	drivers
Weekly earnings	Simple percentage	Cumula- tive per- centage	Simple percentage	Cumula- tive per- centage	Simple percent- age	Cumula- tive per- centage	Simple percentage	Cumula tive per centage
Under \$8	7.1	7.1	6.0	6.0	3.0	3.0	2.6	2.
16 and under \$20	14. 1 5. 0	21. 2 26. 2	8. 4 12. 0	14. 4 26. 4	6. 7 2. 4	9. 7 12. 1	4. 6 5. 1	12
20 and under \$24	8.7	34. 9	24.3	50.7	7. 0	19, 1	15. 5	27
24 and under \$28	8.9	43.8	33. 2	83. 9	8.6	27.7	31. 2	59
28 and under \$32	9. 1	52. 9	11.8	95. 7	21.0	48.7	20. 7	79
32 and under \$36	10.8	63. 7	3. 0	98. 7	11, 1	59.8	13.3	93
36 and under \$40	9. 5	73. 2	.7	99. 4	11, 3	71. 1	4.0	97
40 and under \$48	15. 4	88.6	. 5	99.9	17.9	89. 0	2, 3	99
48 and under \$56	6. 0	94. 6	.1	100.0	10.0	99.0	. 6	99
56 and under \$64	1.7	96.3	(1)	100.0	1.0	100.0	.1	100
64 and under \$72	3.3	99. 6 100. 0			8	100. 0 100. 0	(1)	100

¹ Less than 1/19 of 1 percent.

The average weekly earnings for each of the 8 important occupations were \$39.95 for cable drillers, \$50.44 for rotary drillers, \$29.70 for rotary drillers' helpers, \$25.89 for pumpers, \$30.49 for rig builders, \$22.45 for roustabouts and laborers, \$32.79 for tool dressers, and \$26.81 for truck drivers. Among the remaining occupations and occupational groups, the average weekly earnings were \$29 for air and gas lift engineers, \$28 for casing pullers, \$35.19 for clean-out drillers, \$26.53 for clean-out drillers' helpers, \$30.70 for gagers, \$28.24 for stillmen and dehydrators, \$31.05 for skilled and \$25.66 for semiskilled construction, maintenance, and power employees, \$34.39 for supervisory field employees, \$37.72 for supervisory office employees, \$31.31 for nonsupervisory office employees, and \$25.61 for miscellaneous labor.

No data are available as to average weekly earnings for 1920. The 1929 average for the four States covered in that survey was \$36.47, which may be compared with the 1934 average of \$28.82 in the same States. This is a reduction of \$7.65, or 21 percent.²⁰

Average weekly earnings amounted to only \$20.88 in the region comprising Kentucky and West Virginia. In the other eastern areas they were \$25.52 for Illinois, Indiana, Michigan, and Ohio and \$25.24 for New York and Pennsylvania. In all other States and regions average weekly earnings varied from \$25.56 for Kansas to \$33.83 for "Other Texas." This latter average cannot be accepted as really representative of conditions, as most of the workers in this area were on rig building and drilling operations. Hence, the better comparison would be with \$30.31 and \$30.12, respectively, for California, and the region made up of Colorado, Montana, New Mexico, and Wyoming.

² See pp. 898-899 for changes in weekly hours.

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tter for New Table 11 shows the average weekly earnings by occupations and occupational groups for the various States and regions.

Table 11.—Average Weekly Earnings of Drilling and Production Employees by Occupations and Regions, 1934

Occupation or occupational group	Arkar sas	a- Cali forni		o, n- a, w ico, d	Illin India Mic gas an Oh	ana, chi- n, d	K	an-	Ken- tucky and West Vir- ginia		ouisi- ina 1	New York and Penn- syl- vania
All occupations	- \$25. 76	\$30. 3	1 \$30.	12	\$25.	. 52	\$25.	. 56	\$20.88	\$2	8. 43	\$25. 24
Air and gas lift engineers	(1) (1) (1) (1) (22.6) (22.0) (22.0) (1) (1) (23.5) (1) (1) (1) (1) (2) (1) (1) (1) (1) (1) (1) (2) (1) (1) (2) (1) (2) (3) (4) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	5 34. 0 27. 8 35. 6 0 24. 2 30. 0 34. 7 5 29. 0 31. 7 27. 2 8 35. 6 40. 6	9 (1) 43, (1) 66 61. 5 34. (8 28, 00 (1) 00 222, 23 38, 88 27. (8 32, 21 27, 22 35, (6 6) (1) (1) (1) (2) (2) (3) (3) (4) (5) (6 6) (6 6) (7 7) (7 8) (8 6) (8 6) (9 7)	999 39 63) 00) 66 05 79 65 .64 .83	(1) (2) (2) (3) (4) (4) (4) (4) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	12	(41) (49) (29) (19) (35) 23) 26)	(1) (1) (2) (-41 (1) (3) (-0.06 (-47 (1) (-10) (24. 94 (1) (2) (29. 23 (2) (2) (3) (1) (1) (16. 63 (27. 02 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	522222222222222222222222222222222222222	(1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	26. 37 (2) 31. 43 34. 15 (2) (2) (3) (1) 24. 69 (1) 27. 21 26. 57 31. 8 (1) 29. 3 (1) 25. 3 (1)
Occupation or occupational group	Okla- homa	Central Texas	East Texas	C	dulf loast exas		rth xas	Pan hand Texa	le we		West	
All occupations	\$26.80	\$28.92	\$29.40	\$3	0.71	\$26.	22	\$28.7	2 \$28.	91	\$29.37	\$33.8
Air and gas lift engineers	(1) 40, 67 36, 42 27, 87 54, 18 30, 59 (1) 25, 40 22, 16 22, 01 26, 75 32, 54 25, 49 30, 02	(1) (2) (1) (2) (2) 49. 48 30. 08 (1) 26. 37 (1) 21. 94 (2) (1) 28. 36 34. 10	(1) (3) (1) (1) (1) 50, 27 29, 64 29, 02 27, 24 30, 75 23, 62 (1) (2) 29, 25 30, 11	22232	(1) (2) (2) (2) (1) 51. 39 58. 34 99. 19 98. 72 90. 10 25. 40 (2) (2) (3) (4) (5) (5) (6) (7) (8) (7) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	(43. (50. 28. (25. (20. (31. 26. 30.	. 88 1) . 30 1) . 91 . 44 2) . 70 2) . 63 2) . 10 . 28	28. 0 (3) 47. 3 35. 0 (1) (1) 25. 3 (1) 22. 9 (2) 38. 0 28. 3	99 (195 (195 (195 (195 (195 (195 (195 (1	1) 1) 1) 1) 1) 1) 1) 1) 1, 23 1) 1, 23 1) 1, 22 2) 2)	29. 26	(2) (1) 30. 8 (2) (2) (3) (3) (1) (1) (1)
power employees, semiskilled Supervisory employees, field Supervisory employees, office Nonsupervisory employees, office Miscellaneous labor	25. 51 32. 75 (1) 31. 42 25. 30	(1) 32. 94 (1) 29. 99 (1)	24. 30 35. 01 (1) 31. 59 23. 28	000	(1) 37. 33 (1) 31. 56 26. 53	31	. 71 . 95 (1) (1) (1)	33. 5 (1) (1) 24.	07 31	(1) 1.78 (1) (1) (1)	23. 86 33. 24 (1) 34. 85 28. 18	(1)

Not a sufficient number reported to present average.
None reported.

Man-Hours of Employment in 35 Manufacturing Industries in 1933

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By ARTHUR F. BEAL, of the BUREAU OF LABOR STATISTICS

AGE earners in 35 manufacturing industries worked an average of 165.1 hours per month during 1933. This was shown by an analysis recently made by the Bureau of Labor Statistics of reports to the Bureau of the Census by 7,365 manufacturing establishments employing 1,638,306 wage earners. The average monthly hours worked per wage earner ranged from 140.9 in the machine-tools industry to 220.8 in the beet-sugar refining industry.

The year 1933, from the standpoint of hours of labor, had three important phases: (1) Restriction of industrial activity during the banking crisis of February and March; (2) a rapid rise of industrial activity during the spring and early summer months, which culminated in the peak of July and August; and (3) introduction of the President's Reemployment Agreement and the industrial codes under the auspices of the National Recovery Administration resulting in extensive reductions in the customary or full-time hours of labor. These general developments are reflected in the month-by-month man-hour data.

Scope of Study

This study is based upon data secured by the Bureau of the Census, at the request of the Bureau of Labor Statistics, in the 1933 census of manufactures. Of the many industries canvassed by the census through special questionnaires, 38 were requested to furnish manhours for each month.¹

Of the industries originally selected, it proved impossible to use the man-hour reports for three dairy-product industries—butter, cheese, and condensed and evaporated milk.² The remaining 35 industries, which are covered by these tabulations, employed about one-fourth of all the wage earners in manufacture as reported by the census of manufactures.

The census data on man-hours for 1933 are more extensive than any formerly available. Heretofore the most extensive sources of information on man-hours have generally related to a single pay-roll

¹ These 38 industries, except machine tools and machine-tool accessories, were selected because the detail products were believed to be sufficiently uniform to make possible the computation of a weighted index of production which, together with the man-hours, would permit further productivity studies. Machine tools and machine-tool accessories were included because similar man-hour data had previously been collected for these in the censuses of 1929 and 1931.

³ So many of the reports showed full-time hours rather than the hours actually worked that it was impossible to obtain an adequate sample of the industry.

period, which for a large proportion of the establishments covers a week in each month; and in only a few industries had so large a proportion of the industry been covered as in these census returns. The census data cover man-hours throughout each of the 12 months of 1933 for 83.2 percent of the workers in these 35 industries. Furthermore in the census returns man-hour information is accompanied by other data, such as wages, value of products, value added by manufacture and physical units of product, which usually are not available for identical firms reporting man-hour data.

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On some of the reports submitted by manufacturers, man-hour data were either lacking or defective. All such reports were necessarily rejected from this study, which therefore represents only a large sample for each industry. The industries covered are listed in table 1, and the percentage of coverage of employees reported by the census is given for each in column 3 of the table. For only two relatively small industries—rayon yarns and cane-sugar refining, with 34 and 19 establishments, respectively-was man-hour information secured for all wage earners, but for every industry except manufactured ice the coverage was in excess of 50 percent. Satisfactory replies were received from plants representing 83.2 percent of all the wage earners employed in these 35 industries. The coverage for some of the large industries was as follows: Motor vehicles, 99.4 percent; steel works and rolling mills, 98.5 percent; petroleum refining, 97.2 percent; motor-vehicle bodies and parts, 88.4 percent; meat packing, 88.1 percent; and cotton goods, 78.8 percent.

For some of the industries, especially those with many establishments, a much larger percentage of wage earners than of establishments was covered by the sample. This was partly due to the fact that many of the smaller plants were not supplied with the regular questionnaire, but with a general "short-form" schedule which did not carry the man-hour inquiry.

³ Since 1932 in connection with its trend of employment data, the Bureau of Labor Statistics has been collecting man-hour information for 90 manufacturing industries. In January 1933, the Bureau secured man-hour information on 1,399,653 wage earners, or 32.9 percent of the total number employed by the 90 industries; by December 1933, the sample had been improved to include 41.6 percent of the total number in the 90 industries; and by December 1934, the coverage for the 90 industries was 60.4 percent.

In evaluating the census data, therefore, it may be noted that with reference to a list of 35 industries the coverage of the census man-hour sample in 1933, 83.2 percent, was unusually comprehensive, though by December 1934 the Bureau of Labor Statistics had a 70-percent coverage of this list of 35 industries.

⁴ Dividing the number of man-hours reported for a given month by the number of wage earners for that month, the results obtained for defective schedules were: (a) Grossly excessive, including instances showing several hundred hours per wage earner during the latter months of the year while under the restrictions of the N. R. A. codes; or (b) reported on the basis of exactly 40 hours per week, i. e., full-time hours, for months while under N. R. A. codes. Such schedules obviously did not portray the number of hours actually worked.

⁵ The reports were satisfactory for the ordinary purposes for which the census of manufactures is taken. Because only the man-hour figures were defective, these reports were excluded from only the man-hour tabulations.

⁴ The census itself does not cover establishments with less than \$5,000 value of products, and to that extent, especially for certain industries such as baking and ice making, does not provide complete coverage; any such omissions, however, are in all cases a small percentage of the total.

Data for Individual Industries

Table 1 gives for each of the 35 industries summary figures as to the number of establishments covered in this man-hour tabulation; number of wage earners included, and the percent of the entire industry; aggregate number of man-hours worked and average hours per wage earner per month; and aggregates in dollars, together with rates per man-hour, for wages, value of products, cost of materials, and value added by manufacture.

The 35 industries covered fall more or less naturally into 5 general classes or groups of products. Though the individual industries are sufficiently distinctive to render group totals of doubtful significance, and though in certain respects classification is quite arbitrary, nevertheless, these groupings are referred to occasionally for convenience, with the primary purpose of indicating similarity or dissimilarity between the more or less related several industries. The groupings are as follows: (1) Food products (including ice), 8 industries; (2) tobacco, 3 industries; (3) textiles, 12 industries; (4) chemicals, 6 quite diverse industries—leather tanning, petroleum refining, rayon yarn, and soap, and also paper and pulp; and (5) metals and machinery, 6 industries (including motor vehicles and motor-vehicle bodies and parts).

⁷ The item "cost of materials" includes not only the materials used in manufacture, but also fuel, electric energy purchased, containers for products, and processing taxes, and, for the tobacco industries, all internal revenue stamp taxes.

⁸ The value added by manufacture is obtained by subtracting the cost of materials from the value of products, and represents the amount available to cover wages, salaries, depreciation of machinery, interest on investment, taxes, other than excise taxes, other overhead expenses, and profit.

Table 1.-Total Man-Hours Worked, Wages Paid, and Value Produced in Each of 35 Selected Manufacturing Industries in 1933

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	Num	Wage earners 1	rners 1	Man-hours	hours worked	Wages paid	aid	Value of products	duets	Cost of ma fuel, pro and excise etc.	of materials. processing excise taxes,	Value added by manufacture	d by	Ratio of wages
Industry	ber of estab- lish- ments	Number	Per- cent of indus- try	Number	Aver- age per wage earner per month	Total	Aver- age per man- hour	Total	Aver- age per man- hour	Total	Aver- age per man- hour	Total	Aver- age per man- hour	
	3	(3)	(8)	•	(9)	(9)	6	(8)	•	. (10)	Œ	(12)	(13)	3
35 selected industries	7, 365	1, 638, 306	83. 2	3,245,323,067	165.1	\$1,401,969,592	\$0.432	\$10,763,693,242	\$3.32	\$7,186,029,171	\$2.22	\$5,577,664,071	\$1. 10	Per- cent 39.
Food industries (8) Meat packing Flour milling Sugar refining, cane	372 531 19 1. 181	99, 671 17, 158 11, 495 9, 243	88.1 100.0 13.9	228, 275, 079 39, 061, 776 25, 423, 516 23, 879, 399	190.9 189.7 184.3	271, 324, 237,	. 426 . 444 . 481	822, 495, 075, 902,	13, 26 13, 26 2, 28	983, 916, 535,	4. 73 9. 52 11. 08	8,8,8,8		4 388
Sugar, beet. Feeds, prepared Cereal preparations. Malt.	288	8, 627 5, 916 5, 130 724	80.6 67.3 85.4	22, 857, 190 12, 558, 877 9, 888, 242 1, 625, 244	220.8 176.9 160.6 187.1	9, 023, 151 5, 335, 964 5, 045, 764 1, 068, 360	. 395 . 425 . 510 . 657	109, 865, 983 117, 361, 305 83, 653, 397 24, 270, 613	9.34 8.46 14.93	66, 362, 821 91, 348, 092 44, 485, 347 18, 014, 076	2.91 7.27 4.50 11.08	43, 503, 162 26, 013, 213 39, 168, 050 6, 256, 537	3.88.038 8.86.038	20.7 20.5 12.9 17.1
Cigars Tobacco industries (3)	158	35, 875 22, 296	86.88 8.09	66, 147, 457 37, 885, 746	153.7	19, 802, 596 13, 671, 710	. 299	104, 203, 819 635, 837, 301	1.57	56, 416, 709 502, 070, 945	. 85	47, 787, 110 133, 766, 356	3.53	10.
tobacco	26	8, 445	82.6	15, 113, 597	149.1	6,078,974	. 402	122, 709, 022	8. 12	78, 501, 008	5. 19	44, 208, 014	2.93	13.
Textile industries (12) Cotton goods Hoslery Worsted goods	659 268 141	298, 949 71, 065 67, 689	78.8 60.3 86.0	624, 210, 303 142, 670, 700 137, 938, 354	174. 0 167. 3 169. 8	174, 451, 551 53, 099, 695 55, 068, 066	. 279 . 372 . 399	690, 650, 255 164, 627, 497 261, 605, 025	1.11	367, 879, 454 70, 953, 569 153, 576, 113	. 59	322, 770, 801 93, 673, 928 108, 028, 912	23.92	56.
Regular weaving Regular weaving Regular throwing Commission weaving Commission throwing	22 28 28	48, 234 5, 437 6, 434	71.9	95, 884, 997 10, 740, 824 13, 024, 706 36, 461, 776	165.7 164.6 168.7	35, 367, 652 3, 393, 150 4, 078, 216 10, 125, 963	316	160, 681, 637 18, 334, 933 6, 568, 192 19, 910, 882	1.68	97, 450, 483 11, 378, 629 588, 205 3, 574, 398	1.06	63, 231, 154 6, 956, 304 5, 979, 987 16, 336, 484	8883	13 4 8 3

	-mn-X	Wage earners 1	rners 1	Man-hours worked	worked	Wages paid	piad	Value of products	ducts,	Cost of ma fuel, pro and excise etc.	of materials, processing excise taxes,	Value added by manufacture	ad by	Ratio of wages
Industry	ber of estab- lish- ments	Number	Per- cent of indus- try	Number	Average per wage earner per month	Total	Average per man-	Total	Aver- age per man- bour	Total	Aver- age per man- hour	Total	Aver- age per man- hour	to value added by manu- facture
	3	(3)	(8)	•	(9)	9)	6	(8)	•	(10)	Œ	(12)	(13)	(14)
Tertile industries—Continued Woolen goods—Knit underwear Carpets and rugs, wool Knit outerwear Cotton small wares Felt goods, wool, hair, or jute—Knit cloth Wool shoddy	218 113 163 163 163 163 20 20	38, 943 116, 972 116, 972 117, 128 11, 004	89.0 89.0 89.0 71.0 89.0 71.0 89.0 71.0 89.0 89.0 71.0 89.0 71.0	80, 554, 206 49, 556, 698 36, 454, 579 27, 785, 891 18, 804, 707 8, 690, 335 2, 397, 232	172.4 164.8 152.1 165.3 170.1 171.2 160.9	\$31,836,788 15,816,907 16,924,708 9,956,341 7,638,243 4,542,430 3,596,066 887,633	\$0.395 .319 .464 .358 .378 .488 .414	\$122, 625, 660 (6, 289, 068 66, 848, 308 26, 10, 199 24, 283, 823 27, 684, 525 7, 090, 569	#1111484 8288888	\$66, 308, 643 32, 684, 774 28, 172, 440 22, 263, 503 11, 873, 634 19, 693, 319 4, 273, 011		\$56, 317, 017 33, 604, 294 38, 675, 868 20, 826, 847 14, 557, 165 13, 796, 164 8, 591, 206 2, 817, 558	\$0.70 1.06 1.75 1.48 1.18	Per- cent 66.5 47.1 8.8 8.8 8.8 8.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9
Paper Petroleum refining Rayon yarns Leather tanning Pulp Soap	273 273 34 211 157 70	73, 328 67, 007 44, 306 32, 483 17, 647 12, 871	84. 1 97. 2 100. 0 73. 5 87. 9 90. 0	154, 234, 854 135, 831, 413 91, 771, 817 67, 927, 185 36, 911, 536 26, 415, 542	175.3 168.7 172.6 174.3 174.3	68, 639, 985 87, 383, 622 38, 612, 632 31, 894, 601 15, 913, 193 12, 724, 442	. 445 . 643 . 421 . 470 . 431	484, 916, 086 1, 342, 224, 095 156, 931, 519 172, 695, 466 119, 863, 661 186, 275, 432	2.25 7.25 7.05 7.05	276, 821, 784 4, 040, 889, 169 44, 031, 316 74, 013, 601 86, 404, 336	1. 79 7. 66 7. 66 1. 48 1. 51 2. 01 3. 27	208, 094, 302 301, 334, 926 112, 900, 203 69, 885, 508 45, 849, 460 99, 874, 096	3.1.1.1.2.3. 3.2.2.2.3. 3.2.2.2.3.	8844444 004007
Steel works and rolling mills. Motor-vehicle bodies and parts. Motor vehicles. Machine tools. Machine-tool accessories.	361 219 1113 62 126 317	272, 562 128, 821 97, 285 11, 389 10, 300	88.88.88 89.4.44 80.11	491, 956, 182 233, 951, 265 169, 234, 005 22, 561, 971 19, 167, 914 18, 344, 622	150.4 151.4 145.0 140.9 148.4	255, 290, 161 131, 266, 472 103, 225, 025 11, 004, 234 11, 205, 619 11, 387, 359	. 519 . 561 . 610 . 488 . 585 . 621	1, 132, 015, 560 696, 685, 379 1, 695, 284, 834 206, 355, 908 36, 144, 712 36, 390, 860	11.98 1.98 1.98 1.98	686, 153, 813 406, 853, 261 767, 244, 646 180, 637, 726 9, 028, 773 8, 758, 872	8. 1. 74 8. 01 8. 01 8. 01	445, 861, 747 289, 827, 118 328, 040, 188 28, 718, 182 27, 115, 939 27, 631, 988	1.27	25.53 2.53 2.53 2.53 2.53 2.53

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The industries are arranged in table 1 according to these general groupings. Within each group, they are listed according to the number of wage earners covered by the tabulation, which happens also to be identical with a listing according to the total number of man-hours tabulated.

In this report, only a summary is given for each industry. In detailed tabulations, which are being published by the Bureau of the Census, the reports for each industry have been tabulated according to (1) the State in which the plant is located; (2) the size of the plant, as measured by the average number of wage earners employed during the year; and (3) the population of the city in or near which the plant was located. The second and third classifications were divided into seven groups each, in compliance with the procedure agreed upon by the Census Bureau in collaboration with the National Recovery Administration.

Of the 35 industries listed in table 1, the industry which showed the largest average number of hours worked per wage earner per month in 1933 was beet sugar (220.8), while the industry with the smallest number was machine tools (140.9). The food-product industries, in general, showed the highest figures for the number of hours worked. In fact, the only 2 industries in the entire list which showed hours worked per wage earner in excess of 200 per month—beet sugar and manufactured ice—are in the food-products group. Also, 6 of the 8 food industries reported average hours in excess of 184 per month, whereas all except 1 of the 6 metal and machinery industries tabulated reported fewer than 152 hours per month.

The three tobacco industries also reported few hours per wage earner per month. Cigarettes, with only 141.6, is the second lowest in the entire list of 35, while the highest of the tobacco group—cigars—re-

ported 153.7 hours per month.

The number of hours reported by the textile and miscellaneous chemical industries approximate the average for all manufacturing industries. Average hours per month per wage earner ranged from 152.1 for carpets and rugs, the only textile industry of the list under 160 hours, to 182.7 for wool shoddy. In 10 of the 12 textile industries the average hours lie between 160 and 174 hours. The 6 industries designated as "chemicals" also showed a small range, from 168.7 hours for petroleum refining to 175.3 hours for paper.

Three columns of table 1 are of particular interest—average wages per man-hour, average value added by manufacture per man-hour, and the ratio of wages to value added. In these three respects, the

⁵ The silk and rayon goods industry is treated as having 4 distinct sections. Some establishments do throwing only while others do weaving only. Either of these types may operate on the commission basis without owning the materials or on the "regular" basis, owning the materials. As is shown by this and other tables, these 4 branches of the industry differ from one another as regards wages, man-hours per worker, etc.

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textile industries are perhaps the most outstanding, showing very low hourly wages, very low value added by manufacture per man-hour, and a very high ratio of wages to value added. The average wage for cotton goods, the largest industry shown in the table, was 27.9 cents per man-hour, being only 0.1 cent higher than the lowest (27.8 cents in commission silk throwing) in the entire list. Of the textiles only 3 small industries showed an average hourly wage in excess of 40 cents. Each of the 5 textile industries with more than 30,000 wage earners had an average wage of less than 40 cents per hour for the year 1933, a value added of less than 79 cents per hour, and a ratio of wages to value added in excess of 50 percent. The ratio of wages to value added by manufacture was particularly high for these larger textile industries, for among the entire list of 35 industries only one other, steel works and rolling mills, reported wages as more than 50 percent of the value added. The only industries of the 35 listed paying an average wage of less than 30 cents per man-hour in 1933 are cotton goods and commission silk throwing, already mentioned, and cigars, the largest industry in the tobacco group.

When the industries within each group in table 1 are considered, departures from the general norm of the group are revealed. For example, the value added by manufacture per man-hour for meat packing was little more than half that for the other food-product industries. That industry also paid as wages a sum equal to 41.4 percent of the value added, whereas the second highest ratio shown in the food-product group was only 22.0 percent.

Another sharp contrast is afforded by the tobacco industries. In the production of cigars, the value added by manufacture was 72 cents per man-hour, and 41.4 percent of this was paid out as wages, while in the cigarette industry the value added amounted to \$3.53 per man-hour and 10.2 percent of this was paid as wages.

One of the most significant approaches to these relationships is that of ranking the several industries according to average hourly earnings. Table 2 shows the industries listed, in descending order, according to the average wage per hour. The industries paying the highest average hourly wages are petroleum refining, the metal and machinery industries, and a few small food-specialty industries. These high-wage industries in general show high value added per hour. In contrast the low-wage industries for the most part have a low value added per man-hour and a high ratio of wages to value added.

¹⁰ The stamp tax had already been deducted as a portion of the cost of materials; see footnote 7, p. 906.

Table 2.—Rank of 35 Selected Manufacturing Industries by Average Wage per Man-Hour, 1933

[Each of the four branches of the silk-and-rayon-goods industry is ranked separately in this table; see table 1]

Rank	Industry	Number of estab- lish- ments	Number of wage earners 1	Average wage per man- hour	Value added per man- hour	Ratio of wages to value added
	35 selected industries 3	7, 365	1, 638, 306	\$0.432	\$1. 10	Percent 39. 2
	4 bounty of 60 conte or			====		
	Average hourly wage of 60 cents or over	717 310				
1	Malt	27	724	. 657	3.85	17.1
2	Petroleum refining	273	67, 097	. 643	2. 22	29. 0
3	Machine-tool accessories	317	10, 300	. 621	1.50	41. 2
4	Motor vehicles	113	97, 285	. 610	1.94	31.5
	Average hourly wage of under 60 but over 50 cents	and the				
5	Machine tools	126	11, 333	. 585	1.42	41.3
6	Motor-vehicle bodies and parts	219	128, 821	. 561	1. 24	45. 3
7	Steel works		272, 562	. 519	. 91	57.3
8	Cereal preparations.	70	5, 130	. 510	3.96	12. 9
	Average hourly wage of under 50 but over 40 cents					
9	Felt goods	41	4, 530	. 488	1.48	32.9
10	Blast furnaces	62	11, 389	. 488	1. 27	38.3
11	Soap	70	12,871	. 482	3.78	12.7
12	Sugar refining, cane	19	11, 495	. 481	2. 18	22. 0
13	Leather tanning	211	32, 483	. 470	1.03	45.8
14	Carpets and rugs, wool.	41	19, 972	. 464	1.06	43.8
15	Paper		73, 328 17, 158	. 445	1. 35 2. 68	33.0
16 17	Flour milling Ice, manufactured		9, 243	. 444	2. 08	20. 4
18	Pulp		17, 647	. 431	1. 24	34.7
19	Meat packing	372		. 426	1.03	41.4
20	Feeds, prepared.	263	5, 916	. 425	2. 07	20. 8
21	Rayon yarns			. 421	1. 23	34. 2
22	Knit cloth	60		. 414	. 99	41. 9
23	Snuff, and chewing and smoking tobacco	26		. 402	2. 93	13.8
	Average hourly wage of under 40 but over 30 cents	1111/162			la contra	1
24	Worsted goods	141		. 399	.78	51.0
25	Sugar, beet	. 66		. 395	1.90	20.7
26	Woolen goods	218		. 395	. 70	56. 8
27	Cotton small wares	. 80		. 378		48.4
28	Hosiery	. 268	71,065	.372		56.
29	Wool shoddySilk and rayon goods: Regular weaving	29		.370		31.
30	Silk and rayon goods: Regular weaving	229	48, 234	. 369		55. 9
31 32	Cigarettes Knit outerwear	19		. 361		10. 3
33	Knit outerwear	113		.358		47.
34	Silk and rayon goods: Regular throwing	34				48.
35	Silk and rayon goods: Commission weaving.		6, 434	.313		
	Average hourly wage of under 30 cents					
36	Cigars	158	35, 875	. 299	.72	
37	Cotton goods	659	298, 949	. 279		
38	Silk and rayon goods: Commission throwing.	106	19, 262	. 278	. 45	

The figures shown in tables 1 and 2 are intimately related to the problem of wage increases. The item "value added by manufacture" must, of course, cover a number of expenses in addition to wages. These other expenses vary greatly from industry to industry, especially between industries in different groups, such as cotton goods and cigarettes. Likewise there are large differences between plants in respect to the size of the margin remaining after wages and raw material costs have been met. Nevertheless, the comparisons between

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 $^{^1}$ Average for year. 2 In the case of silk and rayon goods, 4 subdivisions of the industry are shown.

industries of the average amount of this margin per man-hour are suggestive in connection with the problems of wage changes. In those cases in which labor costs are relatively small, the opportunity to effect economies in other expenses, or to absorb the added cost in the profit margin, are greater, in general, than in those cases in which labor costs are relatively large. In the latter cases, rising hourly earnings create a more intense pressure to reduce labor costs through attempts to increase the physical output per worker or to offset the increase through raising selling prices.

Man-Hours Worked in 1933, by Months

An approximate measure of the total volume of production in each of the various industries is given by the total number of man-hours worked in each industry during each month of a year. Such totals are given in table 3 for each of the 35 selected industries. figures reveal quite plainly the industrial peak which occurred during June, July, and August of 1933. The extent of this increase in employment over that for the earlier months of the year varied greatly among the several industries. It was quite pronounced, 40 percent or more, for some, notably the malt, ice, cigar, woolen, cotton, knitunderwear, knit-cloth, paper, pulp, iron and steel, and motor-vehicle industries. The extent of the rise was relatively small in meat packing, flour milling, prepared feeds, cigarettes, snuff and chewing and smoking tobacco, silk and rayon goods, hosiery, knit outerwear, rayon yarns, and petroleum refining. The machine-tool and machinetool-accessory industries showed little or no pick-up prior to June but a well sustained rise from then to the end of the year. The iron and steel industries also maintained much of their summer volume of employment until the end of the year.

Table 3.—Aggregate Man-Hours Worked Each Month of 1933 1

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Industry	January	February	March	April	May	June	July	August	September	October	November	December	Total
35 selected industries	. 236, 074, 196	226, 577, 599	236, 074, 196 226, 577, 599 219, 756, 904 231,	877, 670	278, 140, 121	318, 971, 614	323, 019, 136	320, 525, 466	291, 923, 872	281, 730, 657	264, 970, 630	251, 755, 202	3,245,323,067
Food industries (8)													
Meat packing Flour milling Sugar refining, cane Ice, manufactured	17, 037, 496 3, 189, 819 1, 712, 848 1, 382, 975 1, 375, 175	7,21,4	16, 426, 23, 361, 1, 492, 1, 486, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	17, 292, 273 3, 453, 462 2, 129, 070 1, 727, 076 543, 681	19, 518, 470 3, 448, 570 2, 639, 462 2, 154, 753 670, 151	19, 724, 123 3, 482, 593 2, 335, 482 2, 658, 614 737, 374	19, 867, 257 3, 497, 432 2, 308, 780 2, 899, 054 893, 090	20, 883, 671 3, 138, 960 2, 562, 007 2, 825, 327 1, 452, 550	20, 316, 918 3, 085, 378 1, 982, 327 2, 539, 932 1, 867, 648	19, 677, 954 3, 183, 714 1, 979, 312 1, 979, 154 5, 341, 240	20, 700, 534 3, 205, 740 1, 995, 459 1, 502, 085 5, 411, 057	19, 071, 672 3, 023, 070 1, 616, 470 1, 392, 786 4, 080, 956	228, 276, 079 39, 061, 776 26, 423, 516 23, 879, 399 22, 857, 190
Cereal preparations	805, 815 89, 933	723, 479 77, 549	822, 066 81, 395			, 812, 145,	914,	65,	1, 860, 164,	841,	502,		625,
Tobacco industries (5)													
	4, 332, 437	4, 980, 001 2, 923, 896	4,841,894 2,914,798	4, 579, 165 2, 863, 672	5, 694, 483	6, 319, 637 3, 486, 924	6, 127, 625 3, 070, 443	6, 331, 144 3, 498, 792	6, 165, 374 3, 156, 907	6, 287, 330 3, 278, 170	6, 021, 421 2, 925, 440	4, 466, 946 2, 683, 555	66, 147, 457 37, 885, 746
smoking tobacco	1, 327, 112	1, 193, 160	1, 246, 600	1, 238, 242	1, 406, 506	1, 371, 926	1, 246, 400	1, 345, 458	1, 212, 899	1, 315, 497	1, 119, 579	1,090,218	15, 113, 597
Textile industries (12)													
Cotton goods	46, 605, 164 11, 426, 170 10, 792, 369	45, 317, 087 11, 603, 155 10, 684, 919	49, 007, 191 12, 354, 575 8, 105, 063	47, 335, 729 12, 128, 972 7, 562, 766	56, 379, 997 13, 205, 093 11, 677, 287	65, 998, 238 14, 097, 269 15, 470, 035	61, 693, 445 11, 642, 617 15, 056, 388	56, 857, 263 10, 930, 332 14, 161, 528	52, 869, 267 11, 993, 595 12, 356, 151	52, 024, 102 12, 138, 014 11, 357, 286	49, 731, 156 11, 485, 946 10, 782, 562	40, 391, 664 9, 664, 962 9, 932, 000	624, 210, 303 142, 670, 700 137, 938, 354
Regular throwing.	8, 468, 599		6,	732,	993,	251, 136,	142,					729, 595,	884,
Commission throwing.	3, 407, 031 5, 666, 458	-	2, 491,	871,	233,	513,	6890,	* 4	879,	975, 130,	687,	236,	541,
Knit underwear Carpets and rugs, wool.	3, 608, 704 2, 132, 814 2, 225, 021	3, 710, 055 2, 126, 191	3, 911, 2, 174,	4, 107, 573 2, 208, 930 2, 154, 802	4, 243, 826 2, 811, 588 2, 578, 668	4, 976, 997 3, 695, 530 2, 811, 941	5, 134, 094 3, 633, 521 2, 687, 675	4, 301, 502 3, 788, 459 2, 637, 623	4, 292, 479 3, 785, 533 2, 655, 221	4, 100, 828 3, 777, 357 2, 356, 423	3, 872, 144 3, 398, 525 1, 981, 162	3, 296, 952 2, 926, 629 1, 780, 916	49, 556, 698 36, 454, 579 27, 785, 891
Cotton small wares. Felt goods, wool, hair, or	1, 361, 718		1, 380, 755	407,	558,	786,	892,		733,	597,	439,	285,	633,
Jute. Knit cloth Wool shoddy.	524, 288 614, 243 127, 259	580, 242 538, 781 143, 444	617, 534 551, 205 102, 092	615, 418 640, 075 129, 297	818, 083 759, 976 230, 427	955, 811 852, 663 273, 328	981, 682 986, 431 301, 125	1, 007, 801 893, 911 258, 956	898, 083 918, 444 234, 090	819, 488 784, 569 210, 414	768, 211 613, 467 177, 523	718, 066 536, 480 209, 277	9, 304, 707 8, 690, 335 2, 397, 232
					-	-							

' For the number of reporting establishments in each industry, see table 1, pp. 907-908.

Table 3.-Aggregate Man-Hours Worked Each Month of 1933-Continued

Industry	January	January Feburary	March	April	May	June	July	August	September		October November December	December	Total
Chemical industries (6)	10, 886 901	90 00	11 500 546	1 8	200 01	11 11 11 11 11 11 11 11 11 11 11 11 11	3	067	100 GGF 41	100	110 01	1000	100
Petroleum refining. Rayon yarns. Leather tanning. Pulp.	10, 992, 251 7, 497, 745 5, 006, 852 2, 636, 441	10, 089, 345 6, 911, 596 5, 046, 003 2, 527, 945	6, 978, 081 4, 997, 397 2, 732, 648	11, 368, 671 6, 147, 970 4, 609, 395 2, 709, 395	11, 598, 308 7, 338, 306 5, 600, 778 2, 961, 159	11, 493, 835 7, 791, 899 6, 426, 591 3, 307, 595	11, 700, 840 8, 467, 469 6, 752, 557 3, 379, 766	12, 120, 324 8, 484, 435 6, 575, 650 3, 568, 935	10, 968, 562 8, 329, 493 5, 813, 227 3, 451, 207	11, 523, 962 8, 208, 527 5, 856, 153 3, 386, 745	11, 278, 604 7, 887, 145 5, 550, 930 3, 244, 955	11, 325, 721 11, 331, 304 7, 729, 151 5, 691, 652 3, 004, 745	135, 831, 413 91, 771, 817 67, 927, 185 36, 911, 536
Soap	1, 900, 007	2, 041, 790	2, 154, 620	35	2, 268, 456	2, 334, 343	2, 282,	2, 584, 375	2, 346, 266	135,	2, 244,	1,825,	26, 415,
Steel works and rolling mills Motor-vehicle bodies and	26, 138, 027	26, 138, 027 25, 085, 594 24, 392, 492	24, 392, 492	28, 723, 164	38, 703, 437	48, 699, 604	56, 991, 169	59, 295, 947	50, 067, 239	48, 696, 880	41, 516, 474	43, 646, 155	491, 956, 182
parts Motor vehicles Blast furnaces	18, 923, 870 14, 351, 737 1, 160, 301	17, 337, 354 11, 215, 925 1, 109, 881	12, 671, 339 8, 982, 392 1, 166, 446	18, 082, 572 13, 105, 303 1, 134, 538	21, 240, 602 16, 139, 590 1, 464, 745	24, 333, 570 18, 209, 971 2, 029, 475	24, 433, 008 17, 249, 377 2, 638, 120	24, 118, 840 17, 226, 364 2, 814, 730	20, 723, 906 15, 108, 368 2, 495, 914	16, 375, 082 12, 818, 373 2, 397, 607	15, 372, 871 11, 870, 889 2, 057, 267	20, 338, 251 12, 955, 716 2, 092, 947	233, 951, 265 169, 234, 005 22, 561, 971
Machine tool accessories	1, 224, 419	1, 149, 25, 989, 529	888, 391	846, 144	100	1, 284, 267	1, 568,	1, 835,	1, 892,	2, 198, 953	2, 394,	2, 561,	18, 167, 18, 344,

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It must be emphasized that man-hours per month are not always comparable with production figures. Thus, in the automobile industry there is a relatively larger volume of employment than of output of finished cars in the fall months, due to tooling operations.

These monthly data on man-hours introduce a most significant refinement of our knowledge of the volume of employment and, by inference, of production. The number of wage earners employed is relatively a crude measure. Marked differences exist between variations in the number of wage earners and in the number of man-hours worked. For example, it has been customary for the Bureau of the Census to indicate variation in employment in an industry, whether purely seasonal or otherwise, by the percentage relationship which the minimum number of wage earners for any month bears to the maxi-The figures in table 4 represent differences between the months of maximum and minimum employment and man-hours worked as percentages of the maximum. Employment and manhours in the 7,365 establishments shown in the earlier tables are shown for each of the 35 industries. The figures in column 1 based on number of wage earners and in column 2 on man-hours show these percentage differences for the first 7 months of 1933. Columns 3 and 4 similarly refer to differences between maximum and minimum months for the year as a whole.

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Table 4.—Maximum Variation in Employment and in Man-Hours Worked in 35 Selected Industries, January to July, and the year, 1933

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Industry	Based on wage earners	Based on man- hours	Based on wage earners	Based on man- hours
	(1)	(2)	(3)	(4)
5 selected industries	Percent 25. 1	Percent 32. 0	Percent 29, 4	Percent 32.
Food industries (8)	10.	1 1 1		
Meat packing	12.5	17. 3	26. 9	21.
Flour milling	7.8	14. 5	15. 9	14.
Sugar refining, cane	11.5	35. 1	19. 6	38.1
ce, manufactured	45. 7	54. 3	48.7	54.
Sugar, beet	51. 1	59. 2	89.8	92.
Feeds, prepared	9.8	20. 3	15. 2	20.
Cereal preparations	9. 7	20.8	17.8	25.
Malt	49.8	52. 0	59. 3	53.
Tobacco industries (3)	11 21			
CigarsCigarettes	14.6	31. 4	21.0	31.
Snuff, chewing and smoking tobacco.	10. 0 7. 6	20. 7 15. 2	14. 5 7. 6	25. 22.
Textile industries (12)	28. 0 6. 6	31. 3 18. 9	29. 5 13. 6	38.
Hosiery Worsted goods	43. 4	51. 1	43.8	31. 51.
Regular weaving	28. 9	25, 5	31. 5	27.
Regular throwing	35. 1	36. 4	39. 8	47.
Commission weaving	21. 4	15. 1	22.7	51
Commission throwing	34. 5	32. 5	36. 6	43
Woolen goods	48. 6	53. 5	51.4	53,
Knit underwear	21. 4	29.7	21.4	35.
Carpets and rugs, wool	33. 0	42.5	41.5	43.
Knit outerwear	29. 0	31.7	33. 5	36.
Cotton small wares	26. 5	28. 1	30.6	32.
Felt goods, wool, hair, or jute	24. 7 38. 4	46.6	33.6	48.
Knit cloth	52. 0	45. 4 66. 1	44. 2 56. 3	45. 66.
Chemical industries (6)	12.0			
Paper	13. 2	. 28.6	23.6	30
Petroleum refining	3.8	13. 8	16. 6	16.
Rayon yarns	20. 3	27. 4	27.6	27
Leather tanning	23, 8	31.7	28.1	31
Pulp Boap	9. 8 8. 8	25. 2 18. 6	23. 9 20. 7	29 29
Metal and machinery industries (6)				
Steel works and rolling mills	34. 5	57. 2	39.6	58
Motor-vehicle bodies and parts	28. 5	48. 1	33.4	48
Motor vehicles	27.5	50.7	29. 9	50
Blast furnaces	39, 1	57.9	45.9	60
Machine tools	25. 5	46. 2	52.1	66
Machine-tool accessories	27. 2	44.6	57.3	67

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In every industry, except silk and rayon goods, there was greater variation in the volume of employment (man-hours) than in the number of wage earners employed. For example, in meat packing 12.5 percent fewer workers were employed in the month of minimum than in the month of maximum employment between January and July, but 17.3 percent fewer man-hours were worked. The differences in the extent of these variations as between industries (for example, 12.5) percent difference in number of wage earners for meat packing and 7.8 percent for flour milling), will be discussed later. At this point it need merely be pointed out that there are marked contrasts between industries as regards fluctuations in employment and in man-hours. For example, in the woolen-goods industry during the first 7 months of 1933 there was relatively little difference between the ratio of the minimum number of man-hours to the maximum number and the ratio for wage earners. In each case the minimum was about half of the maximum. In automobiles, on the other hand, while the minimum number of man-hours in any month was only half the maximum for the first 7 months of 1933, employment in the minimum month was only 27.5 percent under the maximum.

These differences throw light on the employment policies of industries prior to the N. R. A. and on the relationship of employment, man-hours, and production in various stages of the business cycle. The forces affecting the various industries are too numerous to warrant generalization in the space here available. There were 15 industries in which, for the first 7 months of 1933, man-hours in the minimum month (usually March or April) were more than 40 percent below the hours in the maximum month (in most cases July). The number of wage earners fluctuated more or less in proportion to manhours in 7 cases—malt, woolen goods, worsted goods, knit goods, carpets, ice, and beet sugar. In 7 cases—blast furnaces, steel works and rolling mills, motor vehicles, motor-vehicle bodies and parts, felt goods, etc., machine tools, and machine-tool accessories—the increases in man-hours were effected more largely by lengthening

the number of hours of work per worker.

For the year 1933 as a whole it is impossible to use the figures for the number employed as indicative of volume of production or volume of employment, because of the influence of the President's Reemployment Agreement and the industrial codes. The percentage differences for the year in number employed and in man-hours as between minimum and maximum months are presented in columns 3 and 4 of table 4. For 9 of the 35 industries the months of minimum and maximum man-hours are the same whether we consider the year as a whole or the first 7 months (columns 2 and 4). These industries are flour milling, ice manufacture, feeds, worsted goods, woolen goods, wool shoddy, leather, motor vehicles, and motor-vehicle bodies and

parts. In none of these cases, however, does the variation from the month of maximum employment for the first 7 months and for the year as a whole correspond. In some cases—for example, flour milling, feeds, and leather—the difference is large.

Table 5 gives the average number of man-hours worked per wage earner each month of the year, and also a weighted average ¹¹ for the entire year. These monthly averages reflect: (1) The industrial restriction that took place during February and March; (2) the expansion occurring during the summer; and (3) the work sharing that took place in certain industries during the later months of the year under the influence of the President's Reemployment Agreement and the industrial codes. The figures for the later months of the year are also affected somewhat by industrial contraction from the summer peak. Work sharing is particularly conspicuous in such industries as meat packing and petroleum refining which, as indicated by table 3, suffered no serious contraction in aggregate number of man-hours.¹²

The figures in table 5 for the cotton-goods industry illustrate very well the influence of the industrial codes. The code for that industry went into effect on July 17. The month of July, therefore, as far as this industry is concerned, represents neither the precode era nor the code era, but about half of each. The average number of hours worked per wage earner that month (182) is about midway between that for June (212) and that for August (164). The figure for the cotton-goods industry for December (127), however, is especially low in comparison with the previous months, reflecting not only the seasonal decline and the effect of the holidays, but also the results of an administrative order, approved on December 2, curtailing for the remainder of the month the rate of operations by an amount equal to 25 percent of capacity.

¹² Relatives expressing the aggregate number of man-hours (table 3), and of man-hours per wage earner (table 5), for these two industries during the last 6 months of the year, with July as the base, are as follows:

and sometiment of sufficient in I	Meat packing		Petroleum refining	
1933	Indexes of total man- hours	Indexes of man-hours per wage earner	Indexes of total man- hours	Indexes of man-hours per wage earner
July	100 105 102 99 104 96	100 94 86 84 93 86	100 104 94 98 96 97	100 97 84 86 88

¹¹ The monthly man-hour averages were obtained by dividing the aggregate number of man-hours for each month (table 3) by the number of wage earners employed in that month. The weighted average for the year for each industry was obtained by dividing the total man-hours for the 12 months by the sum of the wage earners reported for each of the 12 months; this average is the same as that in column 5 of table 1.

Table 5.—Average Monthly Man-Hours per Wage Earner Employed in Specified Month, 1933

Industry	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	A ver- age for year
35 selected industries	165	159	165	169	187	195	182	171	155	151	148	140	165. 1
Food industries (8)													
Meat packing	191	202	191	200	215	208	202	190	173	169	188	174	190, 9
Flour milling	199	189	212	211	211	210	203	183	167	170	170	164	189.
Sugar refining, cane	167	167	223	196	230	202	210	214	159	156	171	133	184.
Ice, manufactured	215	204	217	221	232	236	245	225	213	195	176	181	215.3
Sugar, beet	201	163	205	204	211	212	221	223	227	231	234	209	220.
Feeds, prepared	177 170	168 150	194 168	191	197	192 166	187	176	159	161	166	161	176.
Cereal preparations	192	182	209	192	171 202	206	174 208	173 180	149	153 177	154 172	137 178	160. 187.
Malt	102	102	200	192	202	200	200	180	111	111	162	110	104.
Tobacco industries (3)													
Cigars	134	143	147	147	167	176	168	164	159	160	152	121	153.
Cigarettes	154	136	143	141	166	159	141	152	134	138	123	111	141.
Snuff, and chewing and smok- ing tobacco	151	138	147	152	167	163	153	162	143	153	133	126	149.
Textile industries (12)	101	100	1	102	101	100	100	102	110	100	100	120	110.
	107	100	200	101	007	010	100	104	150	150	151	107	174
Cotton goods	187	182	200	191	207	212	182	164	156	152	151	127	174.
Hosiery	171	172	184	179	191	195	172	148	159	157	152	131	167.
Worsted goods Silk and rayon goods:	119	177	174	165	186	211	186	174	157	142	148	146	169.
Regular weaving	178	172	179	176	182	187	170	162	156	151	148	134	165.
Regular throwing		163	174	165	187	202	178	158	151	145	147	131	164.
Commission weaving	192	184	190	190	199	199	165	161	136	128	146	137	168.
Commission throwing	176	167	170	178	185	188	165	147	139	143	132	117	157.
Woolen goods	178	178	179	177	187	213	198	175	153	144	147	141	172.
Knit underwear		167	175	179	180	189	185	156	156	148	147	134	164.
Carpets and rugs, wool		131	148	139	167	192	166	165	158	150	143	129	152.
Knit outerwear	166	166	176	177	180	185	174	160	162	148	146	145	165.
Cotton small wares	175	171	181	180	185	198	183	165	163	155	150	146	170.
Felt goods, wool, hair, or jute.	142	154	167	163	197	204	200	181	162	158	161	154	171.
Knit cloth	162	148	170	171	182	188	187	155	158	144	138	130	160.
Wool shoddy	168	177	163	180	208	225	231	181	169	157	151	166	182.
Chemical industries (6)			19191		-				-				
Paper	166	165	177	174	191	201	202	191	172	164	156	148	175.
Petroleum refining	176	163	182	180	183	180	182	176	152	156		153	168.
Rayon yarns		176	186	167	188	188	184	168	164	162	156	156	172.
Leather tanning	178	172	176	175	189	198	196	180	159	162		157	174.
Pulp	169	161	176	172	183	198	197	195	172	166			174.
Soap	163	173	184	170	189	185	178	184	160	165	164	139	171.
Metal and machinery (6)													
Steel works and rolling mills Motor-vehicle bodies and	123	116	122	133	165	183	186	180	151	147	133	140	150.
parts	151	157	123	168	182	189	170	156	139	126	120	135	151.
Motor vehicles	154	122	116	153	177	180	162	157	137	129			145
Blast furnaces	143	133	146	141	167	189	201	191	169	163		156	165.
Machine tools	140	117	115	107	125	148	149	150	146	152		152	140
Machine-tool accessories	143	126	126	123	137	154	161	153	147	151	165	159	148

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Let us now consider further the significance of the figures in table 5. Some men were employed for a larger number of hours than the average given in that table, whereas others worked fewer hours. The average for each month in each industry does, however, give a general picture of the opportunity for work in that month. A man who has been employed in each of the 12 months for this average time will not have enjoyed full time, but his shortage of time is not due to seasonal swings. In the manufacture of cigars, the average number of hours worked by each man employed during January was only 134 hours, which was much less than the customary full time. This was, however, the average effective time, and the sum of the 12 monthly averages would be the average effective working time during the year. Such a total is shown for each of the 35 industries in table 6 (column 2). It varied from a maximum of 2,560 hours in the manufacture of ice to a minimum of 1,653 hours in the manufacture of machine tools; for cigars, it was 1,838. A total obtained in this manner for any specific industry generally agrees quite closely (but not for all industries, especially those with large seasonal variations) with the weighted average number of man-hours per year, arrived at by dividing the aggregate man-hours for the year by the average number of wage earners. For cigars, the sum of the 12 monthly averages was 1,838 hours, whereas the weighted average for the year was 1,844 hours.13 For totals for the several industries computed by either of these methods, differences between industries reflect variations in the length of the working week.

These figures showing the work opportunity of a man employed 12 months give an indication of the average amount of work-time available for all persons in an industry at one time or another during the year. It also allows of a measure of the irregularity of the demands of the industries on the labor market. If the largest number of workers employed in any month had shared equally the aggregate number of man-hours utilized by the industries during the year, the resulting number of man-hours per year per man would have been those shown in column 3 of table 6. The ice industry, as previously shown, offered 2,560 hours on the average to those individuals able to secure 12 months' employment, but only 1,904 hours 14 would have been available had the maximum number of workers been held throughout the year. In other words, each man who worked the average amount of time throughout the year would have had his annual working hours reduced by 656 hours if the total quantity of work had been equally distributed among the maximum number of workers, or (as shown in column 4 of table 6), he would have received only 74 percent as much work as he did obtain.

13 Computed by dividing 66,147,457 man-hours (table 3) by 35,875 wage earners (table 1).

¹⁴ Computed by dividing the total man-hours, 23,879,399 (table 3), by 12,539, the number of employees for August, the month showing the maximum employment.

Table 6.—Reduction in Hours per Wage Earner by Distributing Available Work Among Maximum Number Employed

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Industry	Number of establishments	Average hours based on wage earners in maximum duction per wage		hours based on wage earners in maximum		hours based on wage earners in Re maximum dud month tiol		12/7 times sum of 7	12/7 times average hours based on wage earners in maximum month		Re- duc- tion per wage
		ly averages	Num- ber	Per- cent of 12- month sum	earner (col. 2 minus col. 3)	month- ly aver- ages		Percent (of col. 6)	earner (col. 6 minus col. 7)		
The state of the s	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
35 selected industries	7, 365	1, 987	1,725	87	262	2, 095	1,773	85	322		
Food industries (8) Meat packing	531 19 1, 181 66 263	2, 289 2, 228	1, 943 2, 073 1, 998 1, 904 988 1, 968 1, 715 1, 697	84 91 90 74 39 92 89 75	360 216 230 656 1,553 161 212 572	2, 391 2, 691 2, 429 2, 239 1, 990	2, 229 2, 342 2, 265 1, 973 1, 493 2, 114 1, 860 1, 803	92 95 95 73 61 94 93 76	186 118 126 718 936 125 130 582		
Tobacco industries (3) Cigars	158 19	1,838 1,698	1, 675 1, 594	91 94	163 104	1,855 1,783	1, 731 1, 697	93 95	124 86		
Snuff, and chewing and smoking tobacco.	26	1,788	1,719	96	69	1,836	1, 761	96	75		
Textile industries (12) Cotton goods	268	2,011	1,800 1,850 1,692	88 92 83	311 161 348	2, 333 2, 167 2, 182	1, 881 2, 078 1, 677	81 96 77	452 89 508		
Silk and rayon goods: Regular weaving Regular throwing Commission weaving Commission throwing Woolen goods Knit underwear Carpets and rugs, wool Knit outerwear Cotton small wares Felt goods, wool, hair, or jute Knit cloth Wool shoddy Chemical industries (6)	34 63 106 218 113 41 163 80 41 60	1, 995 1, 978 2, 027 1, 907 2, 070 1, 981 1, 819 1, 985 2, 052 2, 043 1, 933	1, 709 1, 553 1, 717 1, 574 1, 554 1, 786 1, 452 1, 689	86 79 85 80 75 90 80 85 83 82 77	286 425 310 333 516 195 367 296 354 369 442 502	2, 246 2, 126 1, 841 2, 098 2, 182 2, 103 2, 071	1, 690 1, 927 1, 704 1, 642 1, 834 1, 469 1, 821 1, 783 1, 779	85 79 85 81 73 86 80 87 82 85 78	321 446 334 403 604 295 372 277 399 324 464 600		
Paper Petroleum refining Rayon yarns Leather tanning Pulp Soap	273 34 211 157	2, 098 2, 097	1,827 1,807 1,858	87 90 87 89 86 87	284	2, 201 2, 153	2, 091 1, 901 1, 910 2, 023	91 98 87 87 94	130		
Metal and machinery industries (6) Steel works and rolling mills Motor-vehicle bodies and parts Motor vehicles Blast furnaces Machine tools Machine-tool accessories	219 113 62 126	1,816 1,733 1,947 1,653	1, 534	71	298 199 420 483	1, 954 1, 824 1, 920 1, 545	1, 392 1, 637 1, 594 1, 399 1, 353 1, 407	79 84 87 73 88 85	31° 236 52 19		

In the beet-sugar industry, the number of working hours per man in 1933 would have been reduced by considerably more than half; that is, from 2,541 to 988. This is due to the fact that the industry is very seasonal; the number of wage earners ranged from a minimum of 2,369 in March to 23,136 in November. While these figures refer only to the sample covered, they are probably representative of the entire industry.

The greatest stability of working hours was shown by two tobacco industries—snuff and chewing and smoking tobacco, and cigarettes.

In interpreting the data for these 35 industries, it is well to keep in mind that most of them are makers of consumers' goods, and even during the worst of the depression have enjoyed a good volume of business compared with that for capital-goods industries.

These statements with regard to equal distribution of the available work are applicable to the entire year 1933, but certain events of the year influence that showing. For example, the introduction of the industrial codes and the President's Reemployment Agreement at about the time of the summer industrial peak caused a number of industries to show increased monthly employment for sometime after the aggregate monthly man-hours had begun to decline. It is worth while, therefore, to ascertain the results of an equal distribution of the total work of the first 7 months of the year (January to July, inclusive) among the maximum number of workers employed during that period. The figures for the 7 months have been reduced to an annual basis through multiplication by twelve-sevenths, and the results (shown in columns 6 to 9 of table 6) are similar to those for the whole year (columns 2 to 5).

The differences between the figures for the entire year and those for only 7 months may be summarized somewhat as follows: The figures for the 7 months are, in general, larger than the corresponding ones for the entire year in the cases of those industries, such as the textiles, which experienced large increases in activity; but the reverse is generally true in the cases of those industries, such as food products and petroleum refining, which operated fairly free from a large seasonal increase.

SOCIAL SECURITY

Railroad Employees' Retirement Act of 1935

URING the closing days of the first session of the Seventyfourth Congress, a new retirement act for the benefit of railroad employees (Public Act No. 399) was passed and was approved August 29, 1935. This act takes the place of a law 1 enacted at the Seventy-third session of the Congress, and which was declared unconstitutional by the United States Supreme Court.² In addition to the act creating a retirement system, a companion law (Public Act No. 400) was passed providing for the raising of revenues to pay the necessary pensions. The retirement act covers employees of any express, sleeping-car, or railroad company subject to the Interstate Commerce Act. The administration of the law is placed in a board of 3 members representing the employees, the railroad companies, and the public. The act becomes effective March 1, 1936, and provides a maximum of \$120 a month to employees 65 years of age, or who have completed 30 years' service. While retirement is compulsory at this age, the railroad company and the employee may agree to extend the retirement age for yearly periods but not beyond 70 years of age.

The amount of the annuity that a retired railroad employee may receive under the law is based upon his period of service. It is determined by multiplying the first \$50 of the monthly compensation by 2 percent, the next \$100 by 1½ percent, and all in excess of \$150 up to \$300 by 1 percent. The total then is multiplied by the number of years of service, not to exceed 30.

The fund to be created for the payment of the pensions provides for the levying of an excise tax of 3½ percent on the pay rolls of employers and an equal amount on the employees.

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¹ See Monthly Labor Review, August 1934 (pp. 363-367).

² Idem, June 1935 (pp. 1511-1522).

Old-Age Pensions in California, Massachusetts, New Jersey, and New York in 1935

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More than \$13,500,000 was spent for old-age allowances during the first 6 months of 1935 in the four States, California, Massachusetts, New Jersey, and New York. These allowances were being paid to over 111,000 needy aged at the end of June in an average amount of \$20.50 per person per month. The importance of these States in the pension field is indicated by the fact that in 1934 they accounted for 44 percent of the pensioners and more than 75 percent of the pension disbursements made in the 25 -States in which pension systems were then in effect. They are also the States in which systems of practically State-wide effect have been in operation for the longest period of time.

The number of pensioners and amount of disbursements in each of these four States during January-June 1934, are shown in table 1.

Table 1.—Operations Under Old-Age Pension Acts, First Half of 1935, by States

Massachusetts. New Jersey. New York. Total. Total, excluding Massachusetts, ² first half of: 1935.		Disbursements,	first half of 1935
	Number of pensioners, June 30, 1935	Total	Average per pensioner, per month
\$7 Y	21, 310 22, 661 13, 229 54, 079	\$2, 472, 116 1 3, 300, 000 1, 151, 701 6, 758, 290	\$20. 08 24. 31 15. 29 21. 30
Total	111, 279	13, 682, 107	20. 50
	88, 618 78, 096	10, 382, 107 9, 119, 089	20. 13 19. 87

Estimated on basis of average allowance.
 Data are not available for the first half of 1934.

Pension payments were begun in California on January 1, 1930, in New York on January 1, 1931, in Massachusetts on July 1, 1931, and in New Jersey on January 2, 1932. Although the California system has now been in operation 5½ years, the pension roll has not yet reached its peak. The monthly reports show that the number of pensioners is still increasing at the rate of 300 per month. The same is true in New Jersey and New York. In Massachusetts the pension list increased at the rate of about 400 per month from March to June 1935.

The operations by months, in California, New Jersey, and New York, the three States for which monthly reports are received by the Bureau of Labor Statistics, are shown in table 2.

¹ No report is available for Delaware, whose State-wide system has been in effect since 1931.

Table 2.-Operations Under Old-Age Pension Acts, by Months, January to June 1935, and by States

and parting	California			N	lew Jersey	2	New York				
Month	Pensioners, end of month	Disburse- ments 1	Average pension 1	Pensioners, end of month	Disburse- ments	Average pension	Pensioners, end of month	Disburse- ments	Average pension		
January	19, 805 20, 076 20, 345 20, 605 20, 983 21, 310	\$396, 473 402, 213 408, 638 414, 177 421, 546 429, 069	\$20. 02 20. 04 20. 08 20. 10 20. 08 20. 14	11, 750 12, 053 12, 426 12, 749 13, 094 13, 229	\$177, 297 183, 830 190, 812 195, 026 200, 663 204, 073	\$15. 08 15. 25 15. 35 15. 29 15. 32 15. 42	51, 964 52, 128 52, 434 53, 039 53, 600 54, 079	\$1, 103, 400 1, 109, 115 1, 115, 500 1, 128, 785 1, 146, 383 1, 155, 107	\$21, 21 21, 22 21, 25 21, 26 21, 30 21, 30		
Total	20, 521	2, 472, 116	20.08	12, 550	1, 151, 701	15. 29	52, 874	6, 758, 290	21. 3		

Old-Age Pension Law of District of Columbia

IX ITH the enactment of Public Act No. 319, the District of Columbia became the thirty-eighth jurisdiction providing assistance to the aged needy, 35 States and 2 Territories already having such laws. As the District law was passed subsequent to the Federal Social Security Act, its provisions were made to conform to that act.

Under the law assistance may be granted to a citizen of the United States who is 65 years of age or more, who has had 5 years' residence or more in the District of Columbia within the 9 years immediately preceding the application for assistance, and 1 year's continuous residence immediately preceding application. He is disqualified for benefits (1) if he is, at the time of making application, an inmate of a prison, workhouse, insane asylum, or any other correctional institution; (2) if he is a habitual tramp or beggar; (3) if he has relatives able to support him and legally responsible for his support; (4) if he has made a voluntary transfer of his property in order to qualify for assistance.

The Board of Commissioners of the District of Columbia is to administer the act or designate an agency to do so. The amount of assistance is to be determined with regard to the conditions in each case, and the Board is empowered to pay reasonable funeral expenses on the death of a beneficiary.

All cases in which relief is granted shall be reviewed every 6 months, and assistance may be withdrawn or the amount varied if changed circumstances warrant it. If an application for relief or modification of relief is denied, an appeal may be made for hearing and review.

Upon the death of a recipient of old-age assistance, or the last survivor of a recipient married couple, the total amount of assistance with simple interest at 3 percent shall be a preferred claim against the estate of the person assisted.

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¹ Computed on basis of monthly reports of State aid (approximately one-half).
2 Data cover 20 counties; the remaining county had not yet put the system into force.

¹ Subsequent to the preparation of this article two laws have been adopted, that of Alabama on Sept. 14, and of Oklahoma on Sept. 24, 1935.

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Sufficient sums to carry out the provisions of the act are to be provided by the Congress, and the Board of Commissioners shall cooperate with the Federal Social Security Board, accepting the sums apportioned by it.

District of Columbia Unemployment Compensation Act

N AUGUST 28, 1935, the President signed the unemployment compensation law for the District of Columbia (Public, No. 386). Including the laws of Alabama and Massachusetts (which have not been published in the Monthly Labor Review) 10 States have laws upon this subject. A summary of the principal provisions of the law of the District of Columbia follows:

Coverage.—Employees of every employer employing 1 or more persons under any contract of hire, including employees of the District of Columbia and of common carriers in interstate commerce, providing the greater part of the work is performed in the District of Columbia. The act excludes domestic service in private homes, casual labor not in the course of employer's trade or business, minors employed by parents, persons employed by child or spouse, employees of the United States Government or any instrumentality thereof, employees assisting in the legislative duties of a Senator, Representative, Delegate or Resident Commissioner, persons employed by the District as school officers, teachers, policemen, and firemen, and services by individuals subject to the Civil Service Retirement Act of May 22, 1920, as amended.

Contributions.—Payable by every employer subject to the act, beginning with January 1936, equal to the following percentages of total wages payable: 1 percent for 1936; 2 percent for 1937; 3 percent for the years 1938, 1939, and 1940.

Beginning with 1941 and thereafter the Board shall segregate employers into classes on the basis of the hazard of unemployment attached to the respective classes and determine the rate of contribution for each class, which rate shall not be less than 1½ percent nor more than 4 percent. However, any employer's rate of contribution shall be 3 percent unless there shall have been 3 calendar years throughout which benefits were payable to persons in his employ who became unemployed and eligible for compensation. The estimated total contributions payable by all employers during any such calendar year shall not be less than 3 percent of the estimated wages on which such contributions are payable.

Benefits.—Payable weekly to every eligible individual commencing with the week beginning January 2, 1938. For total unemployment, an amount, computed to the nearest half-dollar, equal to 40 percent of weekly wages, plus 10 percent of weekly wage for a dependent spouse, and an additional 5 percent for each dependent relative. This sum shall not exceed \$15 per week or 65 percent of weekly wage, whichever is less. For partial unemployment, an amount which when added to the total remuneration received for service during the week, will be \$2 more than the benefit to which he would be entitled if totally unemployed.

Duration of benefits.—For unemployment occurring within any period of 52 weeks, benefits shall be paid to every eligible unemployed person in the ratio of one-third of a week's benefit to each credit week which occurred within 104 weeks ending with the week in which he was last employed, until a total equal to 16

¹ For the unemployment compensation laws of 7 States, see the following issues of the Monthly Labor Review: New York, Utah, Washington, and Wisconsin, May 1935 (p. 1195); New Hampshire, July 1935 (p. 38); California (and reference to North Carolina), August 1935 (p. 335).

times a week's benefit has been paid. After this the ratio shall be one-twentieth of a week's benefit to each credit week which occurred within 260 weeks, ending with the week in which he was last employed.

Credit week.—Defined as a week in which the individual performed some employment against which no benefits have been charged and in respect to which no benefits were paid. All payments of benefits shall be charged against the earliest credit week, or part thereof, available. Any week of employment occurring within the usual school vacation shall not be counted as a credit week.

Eligibility.—An unemployed person shall be eligible to receive benefits for any week if (1) he has filed a claim in the form, at the time and office designated, (2) he has been employed in at least 13 weeks within the 52 weeks ending with the week in which he was last employed, (3) he is physically able to work, (4) he is available for work, has registered and inquired for work with the frequency prescribed, (5) he has been totally unemployed and otherwise eligible for a waiting period of 3 weeks prior to the week for which he claims benefits, and (6) total or partial unemployment is not due to a labor dispute still in active progress in the establishment where he is partially employed or was last employed.

An employee discharged for misconduct is ineligible for benefits for the week in which discharged, and for such additional weeks immediately following (not less than 1 nor more than 6) as the Board may decide. An employee who voluntarily leaves work without good cause, or fails to apply for new work when notified, or to accept such work when offered to him, is ineligible for benefits for the week of

such failure and for the 3 weeks immediately following.

District unemployment fund.—The fund consists of all contributions received or collected and all benefits shall be paid from it. The Board controls the fund and makes an annual report to the Congress. In addition to its contributions to the fund as an employer, the District of Columbia shall, for the calendar year 1936, contribute \$100,000; for 1937, \$125,000; and for 1938, \$175,000. All money received in the fund other than that from the Unemployment Trust Fund shall be paid to the Secretary of the Treasury to the credit of the Unemployment Trust Fund to be held in trust for the District under the terms of section 904 of the Social Security Act. The Board shall requisition from the Unemployment Trust Fund the money necessary to pay benefits for each week. The requisitioned amount shall be deposited as a part of the District Unemployment Fund as a special deposit and used solely to pay benefits.

Administration.—The District Unemployment Compensation Board is established, composed of the Commissioners of the District as members ex officio, and 1 representative of employees and 1 of employers to be appointed by the Commissioners. The Board may enter into reciprocal agreements with the authorities of States having unemployment compensation laws. An executive officer appointed and employed by the Board will act as secretary of the Board and

administer the act.

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16 bor Claims.—Claims shall be decided as soon as possible. Upon determining the amount of benefits and the week payment begins, the employee and his most

recent employer shall be notified.

If either party appeals to the Board within 10 days, benefit payments shall be withheld until the appeal is finally decided. Appeals from the decision of the Board may be made to the Supreme Court of the District of Columbia and then to the United States Court of Appeals for the District.

Effective date.—Contributions begin January 1, 1936. Benefit payments begin

January 2, 1938.

Family Allowances for Municipal Employees in Santiago, Chile ¹

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IN ADDITION to fixed salaries or weekly wages, municipal employees in Santiago, Chile, are granted monthly allowances (paid quarterly) for dependent children. For single children under 18 years of age with no other income the employee receives 30 pesos per month for the first child, 40 pesos for the second child, 50 pesos for the third, 60 pesos for the fourth, and 70 pesos for the fifth and subsequent children. Grants are given only for children who are physically and mentally unable to earn their living or who are pursuing their studies regularly.

Family allowances for children under 16 years of age are also payable to municipal laborers who have been employed for 1 year or longer. The amounts of the allowances and some of the regulations differ from those for the higher-class employees. Grants for dependent children of laborers are subject to a deduction of 10 percent, which will be deposited in the Chilean Bank of Pensions and Savings for municipal laborers.

The bank receives the 10-percent deductions from family allowances under specified conditions, which constitute a system of family savings. The savings bear interest of not less than 3 percent annually. When a child completes his sixteenth year he receives the savings in the form of assistance for his industrial, commercial, or professional training. The children's savings are subject to withdrawal upon the father's death or upon his retirement or resignation as a municipal worker, but only in case he has been employed at least 2 years in the city's service. Funds not withdrawn within 2 years of the time during which they may be withdrawn revert to the general fund for such purpose. Funds deposited by reason of deductions made from family allowances will be invested in State or municipal bonds or in first-class mortgage notes or in real estate.

Employees' Retirement Systems in Great Britain

ALTHOUGH the basic provision for the retirement of older workers in Great Britain is found in the State system of contributory and noncontributory pensions, private pension systems have continued to develop since the war with a marked increase in the number of new schemes during the depression. An account of this development is given in an article in the July 1935 issue of the International Labor Review.

¹ Data are from report of Edward A. Dow, American consul general, at Santiago, Feb. 5, 1935.

Average exchange rate of peso in January 1935 was 5.06 cents.

Public System

The State system of old-age pensions consists of a contributory scheme, based on employment, which covers all workers insured under the Widows', Orphans', and Old-Age Contributory Pensions Acts, 1925–29, and a noncontributory system covering all persons not included in the contributory scheme. The first system provides a pension of 10s. a week for insured persons at the age of 65 who have made the required contributions and a similar pension for the wives of pensioners upon reaching the age of 65. The noncontributory system provides a pension of 10s. a week at the age of 70, subject, however, to a means and nationality test.

The number of persons who were in receipt of old-age pensions under these two systems according to the census of 1931 and the proportion they formed of the total population over 65 in that year are shown in the following table.

Number of Persons in Great Britain Aged 65 and Over and Number and Percent Receiving Old-Age Pensions in 1931

Sex and age group	Total popula- tion aged 65 and over (census of 1931)	Persons receiving old-age pensions (contributory and noncontributory), Mar. 31, 1931	Percent of pop- ulation in specified age group
Men: 65 to 69 years 70 years and over	646, 085 778, 720	Number 415, 833 588, 151	64. 4 75. 5
Total	1, 424, 805	1, 003, 984	70. 4
Women: 65 to 69 years	773, 393 1, 118, 255	249, 161 844, 001	32. 2 75. 5
Total	1, 891, 648	1, 093, 162	57. 8
Both sexes: 65 to 69 years	1, 419, 478 1, 896, 975	664, 994 1, 432, 152	46, 8 75. 5
Total	3, 316, 453	2, 097, 146	63. 2

The table shows that less than half of the persons between the ages of 65 and 70 and approximately three-quarters of those over 70 were in receipt of pensions in 1931.

It is pointed out by the writer that although the social value of the present system cannot be questioned it falls short of being entirely satisfactory in several respects. Thus, it does not provide retirement pensions in the strict sense of the word, since a contributory old-age pensioner may receive a pension while continuing to work and a noncontributing pensioner may earn up to £52 10s. a year without affecting his right to a full pension. As a result many

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pensioners continue to work, often at reduced wages, so that the pension acts as a concealed subsidy to wages and to a certain extent discourages retirement. A further point to be noted is that in most cases the pension scale is probably too low for retirement unless other resources are available. In the census year 1931 persons in Great Britain over the age of 65 who were actually working in gainful employment numbered 693,624 and on March 31, 1934, 214,845 old-age pensioners were receiving supplementary poor relief.

Private Pension Systems

No general study which would show the actual number of private pension systems has been made, but it is estimated that there were between 2,500 and 3,000 at the end of 1934. The writer secured information concerning somewhat more than a hundred schemes, in addition to securing general information from individuals familiar with the movement. The tendency in the systems established in recent years has been toward contributory systems, with increasing attention to actuarial soundness. This has resulted in the employment of the services of insurance companies in the establishment and management of the systems. Four or five years ago there were only a few pension systems operated through insurance companies, but it is estimated that there are now over a thousand in existence. An important recent development is the establishment of pension schemes by two joint industrial (Whitley) councils for all the manual workers in their respective industries. These schemes are contributory, but allow the employees of one firm to take employment with any other contributing firm within the industry without loss of pension rights.

Examination of the provisions of the various schemes shows that administrative and clerical staffs are most frequently covered but that it is quite common for firms to provide separate systems for salaried employees and wage earners and in a few cases both classes of workers are included in one system. Male employees are more frequently provided for than female workers. In the case of contributory schemes new employees are usually required to join upon employment, although it may for a time be optional with the older employees. In noncontributory schemes the pension is usually based on the salary or wage grade and the length of service of the employee, while under the contributory systems it is usually related to the amount and number of contributions and in some instances to the age at entry into the scheme. In the systems covering salaried workers, contributions and benefits generally vary according to the salary and in cases in which they are fixed as a percentage of salary the contributions range between 1\% and 5 percent. For wage earners the contribution is more often fixed at a flat rate, the amount of the pension depending upon the number of contributions. For the latter class of workers benefits range from small pensions of 2s. or 3s. per week to those of £2 or more per week. The usual age of retirement is 65, with a few plans providing for retirement at 60, while in some instances an earlier retirement age is allowed for women than for men. In the more recent schemes operated by insurance companies a group life-insurance policy is taken out providing for a lump-sum payment on the death of the employee.

The number of persons covered by the various schemes is not known but it is believed not to exceed 500,000, a number representing only a small fraction of the total number of persons employed in private enterprises in Great Britain. The number of persons actually in receipt of pensions is also believed to be small, as the majority of the

schemes have been established recently.

In summing up the study, the author points out that well-planned and well-administered pension schemes give a degree of security to the workers and tend to improve the relations between capital and They do, on the other hand, have a tendency to reduce the mobility of labor. Also, the individual firm is not a satisfactory economic unit for the basis of a pension scheme and in case of industrial mergers the existence of such schemes raises serious difficulties, such as occurred in connection with the railway employees' pensions after the 1921 amalgamations. It seems clear, the author states, "that if employees' pension schemes are to be relied upon to supplement the State system of old-age pensions as part of a comprehensive industrial retirement policy, the Government will have to be prepared to give financial assistance to a large number of schemes, and possibly to introduce some measure of compulsion in the case of firms refusing either to establish schemes of their own or to join with others." This possibility, it is said, raises other questions, particularly the question as to whether the extension of the existing State provisions for elderly workers would not be the most satisfactory solution of the problem of retirement.

Liberalization of British Health Insurance Act

THE provisions of the British health insurance and compulsory contributory pension system ¹ affecting insured workers out of employment were considerably liberalized by the revised National Health Insurance and Contributory Pensions Act passed in 1935, which is summarized in the August 1935 issue of the Ministry of Labor Gazette.

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¹ See Monthly Labor Review, October 1934 (p. 823).

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Under the law as enacted and interpreted prior to 1935, an insured worker continued in insurance for a period of about 21 months after he ceased to be insurably employed. During this "free insurance period", as it is called, the full right to medical and maternity benefit was retained, but the right to cash benefit for sickness and disability was restricted, the amount of cash payment being reduced in proportion to the extent of his arrears. At the expiration of this free insurance period he lost all rights and privileges under the system if he continued to be unemployed. All administrative extensions of the free insurance period which have been granted because of continued unemployment were to have expired on December 31, 1935.

The act of 1935, however, retains the free insurance period, averaging 21 months, and adds a new provision which protects indefinitely certain features of the insurance scheme for any worker who had been continuously insured for 10 years previous to the time he became unemployed, regardless of the duration of his unemployment. He will retain his pension rights, his right to medical and maternity benefit, and to any additional treatment benefit to which, as a member of an approved society, he would be entitled. He will not be entitled, under free insurance, to sick or disability benefits, which are cash payments. His right to these may be restored by 26 weeks of insurable employment and 26 contributions over a period of not more than 4 consecutive half-years.

Under the law as it previously stood, arrears of contributions due to unemployment were excused to the extent of half the amount due, leaving the insured worker or his approved society responsible for refunding the other half, in order to remain in full insurance. The new law, by excusing in full all arrears due to genuine unemployment, assures full benefit during the free insurance period to those who are out of work 21 months or less, and to casual and part-time workers who cannot, by reason of unemployment, meet the requirement of remaining in insurance throughout the contribution year. This provision restores the terms of the insurance system as it operated before 1928, when wide-spread unemployment made it necessary to relieve the drain on the funds.

Amendment of Swedish Invalidity and Old-Age Insurance Law

AN ACT amending the Swedish law of June 30, 1913, which established a system of compulsory insurance against old age and invalidity, was passed by the Riksdag June 6, 1935, and becomes effective January 1, 1937.¹

¹ International Labor Office. Industrial and Labor Information (Geneva), July 29, 1935. (For a detailed account of the provisions of the earlier act see Bureau of Labor Statistics Bul. No. 561, p. 337.)

Under the earlier law all Swedish citizens between the ages of 16 and 66, with the exception of civil servants having pension rights, were required to pay the prescribed contribution. The new law requires the payment of contributions by persons between the ages of 18 and 65 and revokes the exemption of civil servants who have acquired pension rights under the special systems. although the compulsory contribution ceases at age 65, because of financial reasons the pensionable age will continue to be 67 as at

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Pensions consist of a contributory fraction (the contributory pension) calculated on the basis of the number of contributions paid and a noncontributory fraction (the pension bonus) payable out of public funds. Under the former law the basic annual pension was calculated on the number of contributions paid, ranging from 70 percent for men entering the system at ages 16 to 19 years to 15 percent for those entering at 55 to 66 years. The basic pension for women was 20 percent less for each age group. The new law abolishes the discrimination between men and women in the calculation of the pension and establishes a basic annual pension of 70 crowns 2 plus 10 percent of the aggregate amount of contributions paid. This is to the advantage of insured persons, particularly those who on reaching the pensionable age have paid only a small number of contributions or whose contributions have been based on a small income. However, if at the time the pension becomes payable contributions have been paid for fewer than 7 years, the basic pension is reduced 10 crowns for each year short of 7.

The pension bonus which is paid from public funds is not payable even at reaching the pensionable age under the law now in force, unless the insured person is permanently unfit for work; under the new law the pension will be payable at age 67 regardless of the insured person's physical condition. At present the payments from public funds to persons whose annual income falls below a certain sum—425 kronor for men and 400 kronor for women—amount to 225 kronor for men and 210 kronor for women, minus six-tenths of the amount by which the annual income exceeds 50 kronor. The new law fixes the rate of the supplementary pension at 250 kronor for insured persons of both sexes subject to the deduction of seven-tenths of the amount by which the annual income of the insured person exceeds 100 kronor.

The minimum contribution paid under the law now in force is 3 kronor per year, plus an additional contribution, based on the taxable income during the preceding year, varying from 2 kronor for incomes between 600 and 800 kronor to 30 kronor for incomes of 10,000 kronor The minimum contribution under the new act is 6 kronor and the additional contribution for the different income classes

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¹ Krona at par=26.80 cents; exchange rate varies.

reaches a maximum of 20 kronor for incomes of 10,000 kronor and over. At present the State pays three-quarters of the pension bonus and the local and departmental authorities pay the remainder, but under the new law the local authorities will pay one-eighth of the pensions, the departmental authorities one-sixth of the pensions granted prior to January 1, 1937, and the remaining expenditure will be borne by the State.

The existing scheme by which contributions are paid into a special fund—the Pension Insurance Fund—is maintained under the new law but while the law of 1913 provided that the competent authorities were responsible only for establishing rules for the management and investment of the fund the new law authorizes the Crown and Parliament to establish rules governing the increase of the fund and to fix the maximum amount of such increase.

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The payment of old-age pensions is at present limited to Swedish citizens, but the new law authorizes the Crown to conclude agreements with other States providing for the payment of pensions to nationals of States providing for reciprocal treatment.

Estimates of the expense of the new scheme place the cost to the public authorities at 93,000,000 kronor in 1937, as compared with 70,000,000 kronor in 1933, at 109,000,000 kronor in 1940, and 139,000,000 kronor in 1950. The increased expenditures, however, will not be due entirely to the increase in the amount of the pensions but will be the result in some part of the increase in the number of persons attaining the age at which pension rights are acquired.

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Restriction Upon Closing of Industrial Establishments in Czechoslovakia

A DECREE restricting the closing of factories and shops and the wholesale discharges of workers became effective in Czechoslovakia on June 30, 1935. The decree applies to employers who intend to shut down their plants for a period of 14 days or more or to discharge a number of workers at one time. Written notice of 14 days must be given to the respective district office and trade supervising office, giving the reasons for the contemplated action; such notice is obligatory when 15 percent of all workers in establishments employing up to 700 employees are to be discharged, or 10 percent in establishments with more than 700 workers.

No further steps can be taken by the employer toward carrying out his plan for 15 days. During that time the district office is to arrange for a conference between the employer and the workers' organizations in order to attempt to arrive at an agreement which would make either the closing of the plant or the discharge of the workers unnecessary. If no agreement can be arrived at and the factory owner receives no adverse decision from the district office within 15 days, he may consider his contemplated action as officially approved.

When a factory owner intends to resume operations within 3 months' time, intervention on the part of the district office is limited to an attempt to induce the parties concerned to arrive at an agreement. If the factory is to be closed for more than 3 months, the owner must give written notice to the Ministry of Social Welfare and the respective ministry under whose jurisdiction the establishment operates, giving the reasons for his contemplated action. After both ministries have investigated the matter, the competent ministry is to make a final decision. If no decision is received within 6 weeks from the date of filing of the announcement with the ministries, the owner of the establishment may consider his contemplated action as officially approved. In the interval, however, he is not allowed to effect any discharges unless he pays full wages to the discharged employees for the entire period during which his case is under consideration.

¹ Data are from report of Orme Wilson, American consul general at Prague, July 19, 1935.

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When a factory owner fails to make the prescribed written announcement, the competent official bureau will investigate his case on its own account. The competent ministry may also, upon approval by the Ministry of Social Welfare, instruct the district office to investigate any factory where, during the calendar year, the number of workers has decreased by 40 percent, in order to determine whether any further dismissals in excess of 6 percent of all workers during a 4-week period are justified. If the district office decides against the factory owner, he must pay full wages to workers for 14 days (3 weeks if the plant was shut down), but in no case for a longer period than that during which operations were actually discontinued.

When a factory is to be discontinued, the district office must be notified and the owner must give adequate notice to all employees, such notice to commence on the day on which the official decision was made, or, in the absence of such a decision, on the first day after 3 weeks from the date on which the owner's written notice reached the respective ministries. Workers must be given 2 weeks' notice after service of 5 years or less and 1 week's notice for every additional period of 5 years' service, the entire term of notice not to exceed 6 weeks in any case. For salaried employees the term of notice is 2 months for service up to 15 years, 3 months for service of 15 to 20 years, and 5 months after 20 years' service.

The new decree does not apply to temporary employees if they and the district office were notified by the employer at the time of employment that the employment would not exceed 4 weeks. Such employees are covered, however, if the employer reports such temporary employment more than three times during any year.

If a new factory is about to be started, or an established factory reopened after being idle for at least 15 months, the competent ministry, on approval of the Ministry of Social Welfare, may exempt such enterprise from the provisions of the decree upon petition by the employer. Such petitions must be filed both with the competent ministry and the Ministry of Social Welfare. If the employer receives no reply within 6 weeks after he has filed his petition, he may consider it as a favorable decision.

No rights given to workers by the new decree may be curtailed or canceled by agreement made between employees and employers.

Repatriation of Foreign Workers in France 1

TO ASSIST in eliminating surplus foreign workers from the French labor market the Ministry of Labor of France has adopted the policy of furnishing free transportation for foreign workers whose requests for work permits have been refused.

¹ Data are from report by Robert D. Murphy, American consul at Paris, July 9, 1935.

Every foreign worker in France is required to have in his possession a valid working permit issued by the Labor Ministry. Such permit is granted for a specific period and its renewal depends upon the circumstances in the individual case. Many foreign workers whose applications for working cards have been rejected remain in France because of financial inability to leave. Some employers have been "willing to wink at the labor regulations", and foreign workers without permits will often take employment at wages lower than those acceptable to natives or to aliens with working cards.

It is planned to transport to the French border, at the expense of the French State, unemployed foreign workers who are nationals of countries such as Luxemburg, Belgium, Germany, Italy, Spain, Portugal, and Russia. The aliens to be transported will be required to have in their possession certificates from their respective consular officers stating that these workers are in possession of adequate means to get from the French border to their places of origin. The Ministry of Labor of France will also provide similar jobless workmen who are nationals of certain central and Eastern European countries (Austria, Czechoslovakia, Poland, Rumania, and Yugoslavia) with free transportation to the borders of their respective countries.

"Labor Book" System Introduced in Germany 1

UNDER a system established in Germany in the early part of 1935, all workers are required, as a condition of employment, to be in possession of a "labor book" (Arbeitsbuch), which is, in essence, a book of identification.

The system was established by a law of February 26, 1935, supplemented by administrative orders issued in May. The Minister of Labor is made responsible for the execution of the law, but the duty of issuing the labor books is placed upon the State Employment and Unemployment Insurance Office. Actual issuance began on June 1, 1935.

The labor book contains a rather complete personal description of its possessor, such as date and place of birth, citizenship, family relations, and residence address; description of training, when and where, in what concern and school, training in other occupations, knowledge of agriculture, special knowledge, such as driving a power vehicle or a tractor for plowing; description of past employment lasting the longest time, by whom employed, where, in what occupa-

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¹ Data are from the following sources: Germany, Reichsgesetzblatt for Mar. 1 and May 17, 1935; Reichsarbeitsblatt for May 25, 1935; Announcement by Minister of Labor, pt. I, pp. 154 to 156; Order by the president of the Employment and Unemployment Insurance Office, pt. I, p. 157; Das Arbeitsbuch, by Dr. A. Wende, Counselor of the Ministry of Labor, pt. II, pp. 132 to 134; and Soziale Praxis for May 30, 1935; Das Arbeitsbuch, by Dr. Fr. Syrup, president of Employment and Unemployment Insurance Office, cols. 626-631.

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tion, and on what dates; description of the present or current occupation, such as title and address of the employing concern, department of the concern, or occupation, date of beginning of employment, nature of occupation as exact as possible, date of ending of the employment, and signature of the employer.

All local employment service offices are to keep a complete card index of all labor books issued in their districts. Each book that is issued has a corresponding index card in the file of the issuing office, each card containing a brief summary of all contents of the book. This system enables the authorities to keep a complete and strict check on the movements and the earning opportunities of all wage earners and salaried employees in the country.

The regulations specify the classes of workers to which the labor books are to be issued and make it clear that eventually all workers, including apprentices and volunteer workers, will be required to have a labor book in order to obtain employment or hold their present jobs. Civil officials (*Beamte*), soldiers, prisoners, public wards, and other persons who, according to the labor laws in effect, appear not to be wage earners or salaried employees are exempted, as are also persons having a monthly income over 1,000 marks, workers residing abroad, home workers, and children not having completed the compulsory term in the public schools.

The importance of the plan is emphasized by the president of the Employment and Unemployment Insurance Office. He points out that the system will permit the compilation of statistics on a nation-wide scale and enable the Government authorities better to distribute labor, to ascertain the branches of industries that show remediable weaknesses, and to control changes of occupation, migration from country to city, and the ratio of employment regarding sex and age. The indexes can also be utilized by the vocational guidance offices for the benefit of boys and girls leaving school, in order to direct them to occupations in which their work is needed. In addition, the authorities claim, the index will enable them to ascertain many other facts which are of great importance for the population, social, and economic policies of Germany.

Upon entering employment the worker must turn over his labor book to the employer who will keep it during the period of employment. When a worker or employee leaves his position, the book must be returned to him by the employer. No worker subject to the act of February 26, 1935, may be employed who is not in possession of a labor book.

Age Distribution of Unemployed in Great Britain, May 1935

STATISTICS showing the age distribution of persons 18 years of age and over, registered for work at the British public employment offices have been compiled from the records of the employment exchanges. This analysis is published in the Ministry of Labor Gazette of July 1935.

The data refer to conditions on May 13, 1935, when 1,938,636 persons 18 years of age and over were on the registers. Of these, 1,544,915 were registered as wholly unemployed, 305,363 were working part time or were temporarily laid off, and 88,358 were normally casual workers. Table 1 gives the age distribution of the men and women in each of these groups.

Table 1.—Age Distribution of Unemployed Persons in Great Britain, May 13, 1935, by Sex and Degree of Unemployment

	Wholly une	employed	Tempor		Seeking casual employment		
Sex and age group	Number	Percent of total	Number	Percent of total	Number	Percent of total	
Men	1,334,052	100.0	218,463	100. 0	86,606	100.0	
18-20 years of age	75, 430	5.7	16,048	7.3	1, 590	1.8	
21-24 years of age	178, 631	13.4	31, 615	14.5	7,410	8.6	
25-34 years of age	341, 022	25. 5	62, 403	28.6	21, 258	24.	
35-44 years of age	254, 119	19.0	46, 402	21.3	18, 564	21.4	
45-54 years of age	241, 776	18.1	37, 162	17.0	19, 963	23.	
55-59 years of age	130, 392	9.8	15, 825	7.2	10, 720	12.	
60-64 years of age	109,004	8.2	9,008	4.1	7, 101	8.	
65 years of age and over	3, 678	.3					
Women	210, 863	100.0	86, 900	100.0	1,752	100.	
18-20 years of age	31, 122	14.8	12, 231	14.1	97	5.	
21-24 years of age	42, 972	20.4	19, 013	21.9	174	9.	
25-34 years of age	57, 202	27.1	26, 507	30. 5	422	24.	
35-44 years of age	35, 585	16.9	15, 897	18.3	422	24.	
45-54 years of age	26, 738	12.7	8, 996	10.3	411	23.	
55-59 years of age	10, 210	4.8	2, 905	3.3	138	7.	
60-64 years of age and over	6, 856 178	3.2	1, 351	1.6	88	5,	

As the table shows, the proportion of women in the lower age groups is much greater than that of men. This, according to the Gazette, is mainly due to the effects of marriage and other causes in reducing the number of older women who are seeking work. Further analysis of the data showed that of the total number of unemployed women on the registers, 61 percent were single or widowed and 39 percent were married. A high percentage of the married women seeking employment, however, was found in the older group, 61 percent being between 25 and 45 years of age. Detailed analysis of the age and marital status of women registered for work at the exchanges is given in table 2.

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Table 2.—Age and Marital Status of Unemployed Women in Great Britain, May 13, 1935

and the state of t		omen and ows	Married women		
Age group	Number	Percent of total	Number	Percent o	
Total women	182, 627	100. 0	116, 888	100.	
18-20 years of age	40, 389 43, 426 40, 622 24, 399 19, 819 8, 197 5, 635 140	22. 1 23. 8 22. 2 13. 4 10. 8 4. 5 3. 1	3, 061 18, 733 43, 509 27, 505 16, 326 5, 056 2, 660 38	2 16 37 23 14 4 2	

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An analysis of the figures by geographical distribution showed little variation with regard to the men except in the Midlands, where only 39 percent were under 35, as compared to 44.9 percent for Great Britain as a whole, and in Scotland, where over 50 percent of the unemployed men were under 35. In the country as a whole, 35.2 percent of the unemployed women were between the ages of 18 and 25, and 63.3 percent were under 35. The percentage of younger women in the 18–25 year age group, was much higher (58.2 percent) in Wales and Monmouth than for the country as a whole and lower (28.0 percent) in the Northwestern administrative division. In the London area 64.4 percent of the women and 45.7 percent of the men were under 35 years of age.

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Work of Petroleum Labor Policy Board

AGES and pay rolls increased and compliance with the terms established by agreement was fairly satisfactory in the period of code operation for the petroleum industry under the National Industrial Recovery Act, according to a recently published survey on the work of the Petroleum Policy Board. Up to the time the United States Supreme Court rendered its adverse decision in the Schechter case, holding the code-making powers in the Recovery Act unconstitutional, the Petroleum Labor Policy Board had acted on 2,862 out of 3,945 complaints filed alleging violations of the wages and hours provisions of the petroleum code; of those handled 1,458 were adjusted and in 922 no violation was found. Complaints under section 7 (a) numbered 77, of which 7 were withdrawn. No evidence of coercion was found in 22 cases, 35 were settled, and 13 remained unadjusted when the Board's work was brought to a close.

The work of the Board was varied in nature and included action upon complaints of alleged violations of code wages and hours provisions and section 7 (a), interpretation of code provisions, research, handling requests for exemptions from labor provisions, measurement of the effects of the code on labor, and compliance and litigation cases. In outlining its activities the Board stated that this was done in order to guide administrative procedure in the event that Congress enacted legislation to carry out the purposes of the Recovery Act and also to clarify its labor policy.

Membership and Duties

As originally set up, the Petroleum Labor Policy Board was bipartisan. However, because of the refusal of the representative chosen for labor to serve, a reorganization was effected on December 19, 1933, establishing an impartial board of three members. Based on oral instructions from the Administrator the Board formulated its duties and functions to include: (1) Advising the Administrator in determining policies affecting labor and in interpreting and applying code labor provisions; (2) acting on compliance cases and recommend-

¹ U. S. Department of the Interior. Petroleum Labor Policy Board. Report to the Petroleum Administrator, Aug. 17, 1935. (Mimeographed.)

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ing appropriate enforcement measures; (3) investigating labor disputes and acting in mediation, conciliation, and arbitration cases (the latter only upon joint request of parties to a dispute); (4) handling cases arising under section 7 (a) dealing with collective bargaining, holding elections for employee representation, and related work; and (5) carrying out research in order to advise on labor policies and the effects of the code on employment, wages, and purchasing power.

Activities of the Board

Wages and hours complaints.—From the date the Board was organized in January 1934 to the end of May 1935 the number of complaints alleging violation of the code wages and hours provisions totaled 3,945. By May 17, 1935, 2,862 of these cases had been closed. Adjustments were made in 1,458 cases; 922 showed no violations; and in 482 compliance had not been secured. The 1,083 cases that were pending were closed by notifying the respective complainants that, in view of the action of the Supreme Court, the Board had no further jurisdiction.

On the basis of experience it was decided that the best procedure would be to send complaints as to hours and wages to the planning and coordinating committee for adjustment in the first instance. Section 7 (a) cases were reserved for personal attention and action of the Board. Cases that could not be adjusted in this way next went to the Division of Investigations to be prepared for action of the Attorney General by the Board's staff or were referred to the Division of Investigations in the first instance when it was deemed desirable. On the basis of reports received it was decided whether cases should be sent to the Department of Justice at once or held in an attempt to obtain adjustment.

Section 7 (a) cases.—Of the 77 cases brought under section 7 (a) in which employees charged discrimination or coercion against union men or that company unions were forced upon the employees, 7 were withdrawn, 22 showed no evidence of such coercion, 35 were settled, and 13 remained unadjusted. A total of 6,613 men were involved. Formal hearings were held in 23 cases and there were 22 formal decisions. One decision had been formulated but was not issued before the work was brought to a close.

The Board acted in 20 strikes involving 9,278 men and 15 threatened strikes involving 17,862 men. Of the 14 strike settlements effected, 8 resulted in written agreements. There were 5 cases in which settlement was not secured. Of the 15 strikes averted, written agreements were obtained in the settlement of 7.

The Board acted as arbitrator in 12 cases involving 4,680 men.

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In the 15 contracts entered into for the purpose of settling disputes arising between employers and employees the Board was named as final arbitrator or mediator. The agreements were all established for 1-year periods and cover about 14,000 workers.

Disputes over choice of representatives for collective bargaining numbered 64. The Board held 33 elections to determine such representatives; in 17 cases the choice was made by checking the petitioners' names against the company pay roll, and in 12 cases no election was necessary as the employers recognized the workers' choice.²

Discrimination and intimidation cases were most difficult to settle, as it was not always possible to determine the cause of a lay-off or discharge. Because of the importance of securing the opinion of a mediator, and not only that of an investigator, it came to be the policy of the Board to handle such cases directly rather than refer them to the Division of Investigations.

Interpretations.—About half of the Board's time was devoted to such problems as code interpretation, modification, exception, and amendment. Among the major questions was that of determining differentials between wage rates of various skill classes, the code having provided for maintenance of differentials as of July 1, 1929, for certain occupations. The clause as written was modified by Executive order and there were subsequent administrative orders on differentials requiring current and retroactive payments. The major companies complied with the requirements but there was a recalcitrant group. On the whole the orders resulted in raising the wage rates of skilled workers.

The definition of stripper wells was left to individual regional committees by code amendment, and it is the belief of the Board that this was a mistake that might have been avoided had the Petroleum Administration been functioning when the matter was settled.

It was necessary in the course of the life of the code to make distinctions between employees and independent retailers so that owning or leasing companies would be responsible for maintaining labor provisions. There were complications involved in maintaining code provisions where industries overlapped and operated either under different labor provisions or entirely without codes. It was concluded that related industries should be subject to the same standards.

Exemptions.—Upon request of the Petroleum Administrator the Board considered 28 petitions requesting exemption from one or more code provisions. In 20 cases the exemptions sought were approved but in 4 approval was denied, and the remaining 4 had not been acted on when the work was discontinued. In all, 14 petitions for reducing minimum wages of drillers were considered. It was possible to grant some ameliorative action in 11 of these. The Board held formal

² For an account of elections held under the auspices of the Board, see p. 951 of this issue.

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hearings on 6 major subjects involving interpretations and changes in the code. These included: (1) The determination of differentials in pay rates for skilled labor; (2) definition of "employee", including determination of the legal position of lessees of stations; (3) application of code to stripper wells and definition of the term; (4) exemption of filling stations from code terms in towns of 2,500 population or less; (5) minimum-wage rates for rig builders in several States; and (6) proposals of organized workers for changes in code labor provisions.

Litigation.—Of the 357 cases arising under the petroleum code that were handled by the Department of Justice, 50 percent involved violations of the marketing provisions. When the Schechter decision was handed down 45 actions had been instituted in the Federal courts of which 8 had been closed and 32 were pending.

Post-code activities.—The Board has undertaken a survey of the petroleum industry since removal of the code work. A field study of employment, pay rolls, hours of labor, and weekly earnings is contemplated. It is expected to collect new data and analyze that already available in the studies of the Bureau of Labor Statistics.

Cabinet Committee's Recommendations for Cotton-Textile Industry

CONTROL of excess capacity, retirement of obsolescent machinery, and the maintenance of code labor provisions are among the recommendations offered by the Cabinet committee appointed by the President on April 26, 1935, to investigate conditions in the cotton-textile industry. The committee submitted its recommendations and a report on conditions and problems in the industry, covering such questions as international trade, Government purchases of cotton, the cotton-loan policy, processing tax, and merchandising and marketing. Specific suggestions were made for better control of the industry. The formation of a continuing committee, made up of representatives of Government, employers, employees, and other affected groups, was recommended, to formulate in more concrete terms the recommendations made and to study and report on longtime problems in the cotton-textile industry, including its interrelation with other phases of national and international economy. The Cabinet committee consisted of the Secretaries of Commerce, State, Agriculture, and Labor. A fact-finding subcommittee was appointed consisting of a representative of each of the respective secretaries and of the United States Tariff Commission. Those parts of the

¹ United States Senate Doc. No. 126 (74th Cong., 1st sess.): Cotton textile industry—message of the President of the United States transmitting a report on the conditions and problems of the cotton textile industry, made by the Cabinet committee appointed by him. Washington, 1935.

factual report and of the recommendations having a direct labor interest are summarized below.

A number of measures were suggested, designed to lessen the adverse effects of the excess capacity and obsolescence of machinery that are serious problems in the cotton-textile industry. Such legislative or administrative action as may be necessary should be taken, the committee stated, to limit the hours of machine operation, to establish a leasing system for retiring surplus equipment and to purchase and retire the most obsolete units after a probationary period under the leasing system. The withdrawal of equipment at the expense of the industry itself should be subject to adequate regulation in the public interest, always observing the objectives of eliminating inefficient units and caring for displaced workers.

If the capacity of mills is measured on a single-shift basis (which understates the position, owing to the existing practice in the South of operating two shifts) production could be increased by about two-thirds. Because of the presence of extra equipment there is a constant tendency to build up stocks of goods, with the result of almost chronic depressions.

Obsolescence is stated to include not only machinery but the mills themselves and to some extent the methods of buying raw materials and selling finished goods. It is pointed out that obsolescence in staple-goods industries may be more important from the point of view of intercompany competition on narrow margins than from the point of view of high cost to consumers. With cotton mills drifting southward, obsolescence thus becomes more serious for New England owners than for others.

To preserve the labor standards of the code established under the National Industrial Recovery Act, the Government is urged to supplement the voluntary efforts of those in the industry by such meas-Therefore, further study is recommended of ures as may be feasible. such questions as regional wage differentials. Under the code hourly. rates of 32½ cents in the North and 30 cents in the South were established; these rates were a compromise, since the North asked that there be no differential and the South that it be made larger. effect is stated to have been to increase wages in the South relatively However, code provisions raised hourly more than in the North. wages in all branches of the industry and resulted in increased employment but with little increase in total annual income per worker except where continuous employment could be furnished. After the Supreme Court decision on the N. I. R. A. it was not possible (in August 1935) to measure in actual figures the extent of observance of code terms, but it was understood that the industry was making a successful effort to continue the code standards on a voluntary basis.

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Study of the statistics for the industry showed that the number of wage earners employed declined from an annual average of 468,000 in 1927 to 330,000 in 1931, but increased by 50,000 in 1933. Average employment in the first half of 1935 was 408,000. New England showed a great loss in cotton-textile workers, from 195,000 in 1923 to 90,000 in 1933; in this period the average number of employees in the South increased from 220,000 to 257,000. Wages which averaged \$14 to \$16 a week in pre-depression years declined to \$11 in 1932. In the first 6 months of 1935 the weekly wage was about \$13. Annual earnings were \$700 to \$800 in 1929 and \$570 in 1933, compared with general averages for all manufacturing ranging from as high as \$1,200 to \$1,300 a year to as low as about \$870.

Restrictive legislation is cited as being important in maintaining high standards by controlling the employment of adult and child labor in the cotton-textile industry. For example, the Massachusetts law that restricts hours of labor to 48 per week for women during specified daytime hours is commended, as well as the 14-year minimum age requirement for the employment of minors in most of the cotton-manufacturing States.

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National Income in 1934

National income increased by 5 billion dollars, or 11 percent, between 1933 and 1934, according to estimates published recently by the Division of Economic Research, Bureau of Foreign and Domestic Commerce, United States Department of Commerce. In 1933 income payments in the form of wages, salaries, and other labor income, interest, dividends, entrepreneurial withdrawals, and net rents and royalties to individuals for economic services rendered totaled 44.4 billion dollars and in the year following, 49.4 billion dollars. The 1934 total was higher than in 1932 (48 billion dollars) but 37 percent below 1929 (78.6 billion dollars).

All types of income rose in 1934 except "other labor income" and interest payments. The highest proportionate gain occurred in the types of income payment that declined most during the depression.

The estimate for 1934 includes work-relief payments, such as pay rolls and maintenance received by members of the Civilian Conservation Corps, the pay rolls on Civil Works Administration and Federal Emergency Relief Administration work projects, and administrative pay rolls of State, county, and other local public-relief administrative agencies. If the income from relief were excluded the rise in national income would be only 4.2 billion dollars, or 10 percent in excess of the 1933 level. Disbursements for pay rolls on P. W. A. projects are shown in the estimates for the construction industry if carried on under contract and appear under the proper industrial classification if carried on by a particular industry. The pay rolls for P. W. A. projects aggregated 302 million dollars in 1934 as compared with 33 million dollars in 1933. Public and private funds disbursed for direct relief are excluded from the estimates as not being income payments for economic services rendered.

The study of income in 1934 was in continuation of previous studies carried on by the Department of Commerce in cooperation with the National Bureau of Economic Research.² In the study here reviewed

¹ Reprint from Survey of Current Business, August 1935: National Income Increased by Five Billion Dollars in 1934, by Robert R. Nathan.

² See Monthly Labor Review, March 1934 (p. 584), National Income, 1929–32; and Monthly Labor Review, April 1935 (p. 921), National Income in 1933 and 1934.
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some revision of the 1933 figures previously published is made. It is stated that both the 1933 and 1934 estimates are preliminary and that the property-income estimates in particular are subject to revision when the statistics of corporate income-tax returns become available.

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Table 1 shows national income paid out, by types of payment, for the years 1929 to 1934, inclusive, in dollar value and with index numbers based on income paid out in 1929.

Table 1.-National Income Paid Out, by Types of Payment

	1929	1930	1931	1932	1933	1934			
Type of payment		Amour	nt (in mi	llions of o	ioliars)				
Total income paid out	78, 576	72, 973	61, 433	47, 964	44, 431	49, 440			
Labor income Salaries (selected industries) Wages (selected industries) Salaries and wages (all other industries) Work-relief wages	27, 291	46, 844 5, 551 14, 251 26, 052	39, 444 4, 606 10, 608 23, 148	30, 643 3, 387 7, 017 19, 141	29, 121 2, 997 7, 189 17, 325 637	33, 109 3, 196 8, 944 18, 675 1, 394			
Other labor income Property income 3 Dividends Interest Vet rents and royalties Entrepreneurial withdrawals	936 11, 632 5, 963 5, 104	990 11, 719 5, 794 5, 310 2, 763 11, 647	1, 082 10, 076 4, 312 5, 228 1, 847 10, 066	1, 098 8, 189 2, 749 5, 048 1, 153 7, 979	973 6, 995 2, 042 4, 569 950 7, 365	7, 143 2, 307 4, 509 1, 085 8, 103			
	Index numbers (1929=100.0)								
Total income paid out	100.0	92.9	78. 2	61.0	56. 5	62.5			
Labor income Salaries (selected Industries) Wages (selected industries) Salaries and wages (all other industries) Other labor income	100. 0 100. 0 100. 0	91. 7 98. 0 82. 9 95. 5 105. 8	77. 2 81. 3 61. 7 84. 8 115. 6	60. 0 59. 8 40. 8 70. 1 117. 3	57. 0 52. 9 41. 8 63. 5 104. 0	64. 8 56. 52. 0 68. 4 96. 1			
Property income 3	100. 0 100. 0 100. 0	100. 7 97. 2 104. 0 80. 5 93. 7	86. 6 72. 3 102. 4 53. 8 81. 0	70. 4 46. 1 98. 9 33. 6 64. 2	60. 1 34. 2 89. 5 27. 7 59. 3	61. 38. 88. 31. 65.			

¹ Includes mining, manufacturing, construction, steam railroads, Pullman, railway express, and water transportation.

² Includes pay rolls and maintenance of Civilian Conservation Corps enrollees and pay rolls of Civil Works Administration and Federal Emergency Relief Administration work projects plus administrative pay rolls outside of Washington.

pay rolls outside of Washington.

3 Includes net balance of international flow of property incomes.

Income paid out as used in table 1 is defined as the compensation paid to or received by individuals for their productive services, whether labor, management, or the furnishing of capital. The estimate is limited in general to services entering into "the market place of our economy." Services of housewives and other members of the family in the home are excluded as are also services of durable goods owned and possessed for personal use such as dwellings, furniture, and automobiles. Earnings from odd jobs, changes in the value of assets, and direct relief are also omitted as being unproductive, impossible to estimate accurately, etc. The report states that the increase in odd jobs during the depression may result in overstating

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rnilue ive, the the decline in income paid out. Another item tending to reduce the income total is the probable expansion of services in the home which were formerly bought in the market.

It should also be pointed out that, because of the price changes that took place, real income did not vary to the extent indicated in dollar value. Income paid out declined 43 percent between 1929 and 1933 and the Bureau of Labor Statistics indexes of cost of living and wholesale prices declined 23 and 31 percent, respectively. The original report states that although price indexes "are not sufficiently representative to warrant their use in deflating the income figures in order to determine the drop in real income," the greater decline in income payments as compared with prices does indicate a marked decline in real income during the depression.

According to the estimates in table 1 the tendency was for all classes of income to decline annually from 1929 through 1933 and to rise in 1934. Labor income in 1933 was 43 percent lower than in 1929; the increase between 1933 and 1934 was 14 percent. Property income decreased 40 percent between 1929 and 1933 and only increased 2 percent in 1934 as compared with the previous year. If the change in labor income, exclusive of work-relief payments, is considered, the rise between 1933 and 1934 is 11 percent. In the industries for which wages and salaries could be separated there was an increase in wage payment of 24 percent in 1934 over 1933 as compared with a 7-percent increase in salaries during this same year.

The report states that net rents and royalties declined sharply during the depression because of the severe reduction in gross rental income and also because items such as taxes, insurance, interest, and depreciation were rigidly fixed. Evidence available points to a reduction in rents and royalties between 1929 and 1933 of nearly three-fourths of the total and a 14-percent increase between 1933 and 1934

Labor income bore practically the same relation to total income in each of the years 1929 to 1934. In the earliest year the percentage of total income paid to labor was 65.0; it dropped to 63.9 in 1932 and stood at 67.0 in 1934. Thus, even if work-relief income (2.8 percent of the total in 1934) is excluded from the labor income, this classification maintained approximately the same share of national income as in 1929.

Income payments are shown by 12 industrial groups in table 2 and index numbers are given with 1929 used as a base.

Table 2.—National Income Paid Out, by Industrial Divisions

	1929	1930	1931	1932	1933	1934					
Industry		Amou	int (in mi	llions of d	ollars)						
All industries	\$78, 576	\$72, 973	\$31, 433	\$17,964	\$14, 431	\$19,44					
Agriculture	6, 157	5, 495	4, 271	3, 192	2, 993	3, 29					
Mining		1, 733	1, 206	813	772	1, 00					
Electric light and power and gas.		1, 475	1, 408	1, 275	1, 164	1, 1					
Manufacturing		15, 942	12, 363	8, 544	8, 273	10,0					
Construction		2, 939	1,939	948	781	8					
Fransportation		6, 129	5, 169	4, 083	3, 747	3, 9					
Communication		946	894	801	727	7					
Prade		10, 839	9, 555	7, 538	6, 620	7, 1					
Finance	8, 415	7,540	6, 296	4, 925	3, 998	4.1					
Government	6, 809	7, 048	7, 193	7, 153	7, 377	8.4					
Excluding work-relief payments Work-relief payments	6, 809	7, 048	7, 193	7, 153	6, 740	7,0					
Service		7, 979	6, 939	5, 442	4, 884	5,					
Miscellaneous	5, 191	4, 908	4, 170	3, 250	3, 095	3, 2					
		Index numbers (1929=100.0)									
All industries	100. 0	92.9	78. 2	61.0	56. 5	6:					
Agriculture		89. 2	69. 4	51.8	48.6	5					
Mining.	100.0	83. 3	58. 0	39. 1	37.1	4					
Electric light and power and gas		113.1	108.0	97.8	89.3	8					
Manufacturing		88. 5	68.6	47.4	45. 9						
Construction		90. 2	60.5	29.1	24.0	2					
Fransportation		93.0	78.4	61.9	56. 8	(
Communication		103.6	97.9	87.7	79.6	8					
Trade	100.0	95. 2	83. 9	66. 2	58. 1						
Finance	100, 0	89.6	74.8	58. 5	47.5	4					
Government	100.0	103.5	105. 6	105. 1	103. 3	13					
Excluding work-relief payments Work-relief payments 1		103. 5	105. 6	105. 1	93. 0	16					
Service		94.3	82. 0	64. 3	57.7	(
Miscellaneous	100, 0	94.5	80.3	62.6	59. 6						

¹ Includes pay rolls and maintenance of Civilian Conservation Corps enrollees and pay rolls of Civil Works Administration and Federal Emergency Relief Administration work projects plus administrative pay rolls outside of Washington.

In the industries where the decline in income paid out was in excess of 50 percent between 1929 and 1933 the increases in the following year were generally the greatest. For example the increase between 1933 and 1934 was 31 percent in mining, 21 percent in manufacturing, and 11 percent in the construction industry. Income payments by governmental agencies (excluding work relief) were 3 percent above the 1929 level in 1934. This is attributed to the increase in number of employees, restoration of full pay schedules, and the continued increase in interest charges on an expanding Government debt.

Income paid out in agriculture was 10 percent greater in 1934 than in 1933 but it is stated that there is evidence that income produced increased to a much greater extent. Higher prices for agricultural products and the Federal Government disbursements under the Agricultural Adjustment Act, which form a part of the gross-income estimates, contributed to the gain in this industry. The report states that there is evidence that the large business losses in agriculture that were characteristic in 1932 have been eliminated and that business savings were enjoyed in 1934.

INDUSTRIAL RELATIONS

Employee Elections Conducted by Petroleum Labor Policy Board

By DAVID A. MOSCOVITZ, CHIEF COUNSEL, PETROLEUM LABOR POLICY BOARD 1

THE Petroleum Labor Policy Board was established on October 10, 1933, without formal order, by the Secretary of the Interior who was also Administrator of the Code of Fair Competition for the Petroleum Industry, for the purpose of aiding him in the enforcement and supervision of the labor provisions of the code.² The Board was authorized to act in all matters arising under section 7 (a) of the National Industrial Recovery Act, as embodied in section 7, article II of the petroleum code. It immediately formulated and adopted rules of procedure to be followed in election cases. These rules provided for elections by secret ballot or the checking of the names of petitioning employees against company pay rolls.

The aforementioned principle was first enunciated officially by the Board in the Magnolia Petroleum Co. case.³ In this case the Board decided that where there was a dispute as to who properly represented the employees for the purpose of collective bargaining, an election should be held under the supervision of the Board to determine by secret ballot the free choice of the employees. The company appealed to the Administrator on the ground that it was willing to bargain collectively with the International Association of Oil Field, Gas Well, and Refinery Workers of America which had filed the complaint, and, therefore, an election was not necessary. The Administrator ruled that an election was not the only method of ascertaining the choice of representatives by employees, and authorized the Board to check petitions of employees against pay rolls and to certify the choice of the majority of the employees by this method.

This decision laid the groundwork for the peaceful settlement, within the industry, of the subsequent cases submitted to the Board involving questions of the employees' rights of self-organization for the purpose of collective bargaining. The foregoing procedure was

³ Decided Feb. 6, 1934.

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¹ Duncan Campbell, statistician, Petroleum Labor Policy Board, prepared the statistical data contained n this article.

² For a general account of the work of the Board, see p. 943 of this issue.

finally incorporated in an administrative order 4 which authorized the Board to conduct elections by secret ballot (including primary elections when deemed advisable) in order to determine by what person, persons, or organization the employees desired to be represented, and further provided that: "After each such election, the Board shall certify the results to all concerned and the person, persons or organization certified as the choice of the majority of those voting shall be accepted as the representative or representatives of said employees for the purpose of collective bargaining without thereby denying to any individual employee or group of employees the right to present grievances, to confer with their employer or otherwise to associate themselves or act for mutual aid or protection."

The Board dealt with 62 disputes involving the sole question of representation. In 34 of these cases elections were held with the cooperation of the companies and the men, and in 16 cases the choice of the employees was determined by checking the petitioners' names against the company pay roll. The Board certified the results in each instance to the interested parties. These 50 cases involved 11,834 men. In addition, 12 cases involving 5,464 men came before the Board in which the designated representatives of the employees were recognized by the companies without the necessity of an election.

Table 1 summarizes the total number of representation disputes settled (1) without the necessity of a certification (i. e., upon receipt by the company of the employees' petition as transmitted to it by the Board), (2) by pay-roll checks, or (3) by elections.

Table 1.—Method of Settlement of Representation Disputes in Petroleum Industry, Mar. 1, 1934, to Feb. 28, 1935

Method of settlement	Num- ber of cases	Men in- volved
All disputes	62	17, 298
Without certification 1Certifications based on—	12	5, 464
Pay-roll checks	16 34	5, 796 6, 038

¹ Cases in which employees' choice was recognized by company without certification but only after intervention by Petroleum Labor Policy Board.

Table 2 gives an analysis of certifications issued on the basis of pay-roll checks.

⁴ Order No. 97365 of the Petroleum Administrator, approved and promulgated Mar. 8, 1935.

Table 2.—Analysis of Certifications Issued by Petroleum Labor Policy Board Based On Pay-Roll Checks, Mar. 1, 1934, to Feb. 28, 1935

	Date of	Num- ber of	Employees signing petition		Name not identified		Employees not signing petition	
Company .	pay-roll check, 1934	em- ploy- ees in unit	Num- ber	Per- cent of total	Num- ber	Per- cent of total	Num- ber	Per- cent of total
All pay-roll checks		5, 796	3, 750	65	122	2	1, 924	33
Magnolia Petroleum Co., Fort Worth, Tex.	Mar. 7	117	83	70			34	30
Magnolia Petroleum Co., Beaumont, Tex	Apr. 2	2, 299	1, 234	54	118	5	947	41
Col-Tex Refining Co., Colorado, Tex	Apr. 11	106	85	94			21	6
Yount Lee Oil Co., Spindle Top, Tex Empire Oil & Refining Co., East Chicago,	Apr. 15	176	90	51		*****	86	49
Ind.	Apr. 19	327	316	97			11	3
Standard Oil Co. of Indiana, Denver, Colo	May 1	83	50	60	1	1	32	39
Phillips Petroleum Co., Denver, Colo	May 3	69	41	59			28	41
Texas Co., Denver, Colo	May 7	47	31	66	1	2	15	32
Empire Oil & Refining Co., Okmulgee, Okla-	May 11	86	71	82			15	13
Empire Oil & Refining Co., Ponca City, Okla.	May 18	284	224	79	2	1	58	20
Louisiana Oil & Refining Co., Shreveport, La- Indian Territory Illuminating Oil Co., Semi-	May 26	384	213	55			171	4.
nole and Osage, Okla	June 2	1, 265	912	72			353	2
Nation al Refining Co., Coffeyville, Kans	June 16	286	192	67			94	3
Yount Lee Oil Co., High Island, Tex	July 4	249	190	76			59	2
Merrick Bristow Oil Co., Big Spring, Tex	Aug. 24	12	12	100				
Continental Oil Co., Wink, Tex.	Sept. 30	6	6	100				

It should be pointed out that all certifications issued on the basis of a check of employees' signatures against company pay rolls were on behalf of affiliates of the American Federation of Labor. All except four of these were issued to the International Association of Oil Field, Gas Well, and Refinery Workers of America. The three Denver certifications were issued to the Gasoline Filling Station Employees' Union, and the National Refining Co. certification, Coffeyville, Kans., was issued to a joint representation group of various American Federation of Labor organizations.

An analysis of certifications issued on the basis of elections, showing the distribution of votes for the various types of representation, s given in table 3.

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Table 3.—Analysis of Certifications Issued by Petroleum Labor Policy Board Based on Elections, Mar. 1, 1934, to Feb. 28, 1935

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						Valid	votes	cast			
Company	Date of election, 1934	Total votes cast		For trade union		For employee representation plan		For indi- vidual bargaining		For others	
				Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent
All elections		6, 038	5, 787	3, 470	60	1, 951	34	254	4	114	2
Texas Co., Lockport, Ill	Apr. 27 May 17 July 5	431 266 91	425 266 90	344 196 83	81 74 92	26 43 7	6 16 8	55 26	13	1	2
White Eagle Refining Co., Casper, Wyo. Continental Oil Co., Baltimore,	do	55	55	27	49	28	51			*****	
Md	July 6	65	64	16	25	9	14	2	3	37	58
Latonia, Ky. Latonia Refining Corporation, Latonia, Ky. (office)	July 10	157	157	61	39	93	59	2	1	1	1
Continental Oil Co.: Glenrock, Wyo	July 14	80	80	54	67	13 26	93			1	7
Parkerton, Wyo Stanolind Oil & Gas Co., Mid-	do	31	31	26	84	4	13	1	3		
west, Wyo	July 17 July 19	597	597	290	21	307	79				
Ohio Oil Co., Columbine, Wyo- Paso-Tex Pipe Line Co., El	July 20	30	30	18	60	12	40				
Paso, Tex. White Eagle Refining Co., Augusta, Kans.	Aug. 14 Aug. 22	278	276	200	56 72	67	31 25	5 9	3	2	4
White Eagle Refining Co., Augusta, Kans. (office)	do	18	18	1	6	10	55	6	33	1	6
Lion Oil Refining Co., El Do- rado, Ark	Aug. 27	93	93	57	61	34	37	2	2		
Corporation, Pasadena, Tex Republic Oil Refining Co.,	Sept. 8	162	159	150	94	3	2	6	4		
Texas City, Tex	Sept. 26	82 154	81 154	77 83	94 54	59 59	38	2	3	12	8
Tex	Sept. 27	15	15	15	100						
Texon-Rita, Tex	Sept. 30	28	28	26	93	2	7	*****			
G. W. James, El Dorado, Ark Lion Oil Refining Co., El Do-	do	7	7	7	100					*****	
rado, Ark	Oct. 1	194	194	34	18	158	100	2	1	*****	
Avant, Okla	Oct. 19 do	15 4 5	4 5	4	80	15 4	100				
Wiser Oil Co., Alluwe, Okla.: Gasoline plant Drilling department Production and machinery	Oct. 24	10	10 6	8 5	80 83	1	10	1 1	10 17		
departments Schermerhorn Oil Co., Big	do		48	32	67	5	10	11	23		
Spring, Tex. Continental Oil Co., Big Spring,	Oct. 27	12	12	12	100				00		
American Petroleum Co., Hous- ton, Tex	Oct. 21	137	137	116	85		9	6 9	23		
Shell Oil Co., Los Angeles, Calif.			2, 582		57		37	108	4	59	

Table 4 summarizes the number and percent of certifications by the Board, by type of organization to which issued.

Table 4.—Number and Percent of Certifications by Petroleum Labor Policy Board, by Type of Organization, Mar. 1, 1934, to Feb. 28, 1935

	Certificati	ions issued			
Organization	Number	Percent of total			
Total certifications	50	100			
American Federation of Labor affiliates International Association of Oil Field, Gas Well and Refinery Workers of America Filling Station Employees' Union Joint Representation of Oil Workers' Union and/or various A. F. of L. craft	40 35 3	80 70			
organizations Employee-representation plans Other organizations	$\frac{2}{9}$	18			

It is interesting to note that the analysis discloses only 9 certifications out of 50 in which the employees chose employee-representation plans in preference to American Federation of Labor affiliates, the total number of votes being 1,951 for the former and 7,220 for the latter.

In answer to the early contention of the companies that they had a right under the law to bargain collectively with representatives of the minority group for terms and conditions of employment covering the same class of employees for which a majority had chosen other representation, the Board held that a majority of any craft or class of employees shall have the right to determine who shall be the representative of that class or craft for collective bargaining. Although developing this principle, the Board recognized the rights of individuals or groups to represent themselves or be represented by counsel or other representatives in cases of grievances or other matters not affecting the collective bargain for the whole class or craft of employees.

In accordance with this principle the Board whenever necessary determined the appropriate unit for the purpose of collective bargaining, conducting investigations and hearings when the facts and circumstances of the case warranted. Certifications have, therefore, been on the basis of that unit which best served to effectuate the purposes of the National Industrial Recovery Act and the petroleum code. The result has been certifications ranging from separate units within the same plant to certifications on a company State-wide basis. The question of the homogeneity of a unit for the purpose of collective bargaining was held to be one to be determined in the light of the facts and circumstances of each particular case.

Although the Board at this time has no complete record of the number of agreements actually entered into subsequent to certification of the duly authorized representatives for collective bargaining, its files indicate that all but a small percentage were followed by agreements, both written and verbal. It should be noted that in each case consent to the holding of an election or the checking of names

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against pay rolls was given by the company involved and that in only four cases did the employers proceed to disregard the certifications by attempting to impose upon their employees the type of bargaining organization preferred by them.

Employee Elections Conducted by National Labor Relations Board, up to June 16, 1935

By George Shaw Wheeler, National Labor Relations Board

TNDER authority granted it by Congress (Public Res. No. 44, 73d Cong.) the National Labor Relations Board and the 17 regional boards conducted 154 elections from July 1, 1934, to June 16, 1935, to determine employee representatives. An analysis of the first 103 elections (up to Jan. 9, 1935) was given in the Monthly Labor Review for May 1935. The present article gives similar data for the grand total of 154 elections covering the whole of the period referred to. Text comment on the tables is omitted, as it would be almost identical with that in the earlier article.

Altogether 56,814 employees were eligible to vote in these 154 elections and 45,287 valid votes were cast. Of the 45,287 votes, 26,478 or 58.5 percent were for trade unions and 15,060 or 33.2 percent were for company unions or employee-representation plans.

The results of the elections, by districts, are summarized in table 1.

Table 1.—Employees, Votes Cast, and Number and Percent of Valid Votes Received, by Type of Organization, July 10, 1934, to June 16, 1935

Board conducting election	Num- ber of em- ploy- ees eli-		Post design					
			For trac	de union		mpany	Oth	her 1
	gible to vote	Total	Num- ber	Percent of total	Num- ber	Percent of total	Num- ber	Percent of total
ll elections	56, 814	45, 287	26, 478	58. 5	15, 060	33. 2	3, 749	8.3
National Labor Relations Board	4, 713	3, 556	1,819	51.1	1, 681	47.3	56	1.6
tegional labor boards	52, 101	41,731	24, 659	59.1	13, 379	32.1	3, 693	8.8
First district		2, 217	945	42.6	939	42.3	333	15.0
Second district	3, 264	2,019	1,009	50.0	339	16.8	671	33.5
Third district	2,940	2, 258	1,582	70.0	627	27.8	49	2.3
Fourth district	1 2,540	1,982	1,066	53. 8	726	36. 6	190	9.
Fifth district		866	90	10.4	776	89. 6		
Sixth district	1,500	1, 274	853	67.0	344	27.0	77	6.
Seventh district	1, 276	454	432	95. 2	22	4.8		
Eighth district		4, 187	1,787	42.7	1,739	41.5	661	15.
Ninth district	1,446	1, 278	923	72. 2	40	3.1	315	24.
Tenth district	7, 355	6, 617	4, 456	67.3	1,725	26.1	436	6.
Eleventh district	5, 383	3, 512	2,052	58.4	1, 362	38.8	98	2.
Twelfth district		258	170	65. 9	65	25, 2	23	8.
Thirteenth district		299	196	65. 6	103	34.4	******	
Fourteenth district		6 001	3, 776	54.7	2, 541	36.8	584	8.
		6, 901			2, 041	30.8		30.
Sixteenth district		6, 872	4, 811	69. 3 70. 0	2, 031	29.6	226	30.

¹ Votes for individuals with no affiliation indicated and votes cast against trade-union representation with no alternative indicated. Also includes 300 votes cast for the losing unions in the 9 elections involving jurisdictional disputes between rival trade unions. Other votes do not include votes cast which were not counted, e. g., contested or blank ballots.

Table 2 gives the same information as table 1, in terms of units.

Table 2.—Elections Held, Units Involved, and Number and Percent of Units Won, by Type of Organization, July 10, 1934, to June 16, 1935

	Num-	Total	Units trade	won by union	Units v	von by y union	Other	units
Board conducting election	ber of elec- tions	units in- volved	Num- ber	Per- cent of total	Num- ber	Per- cent of total	Num- ber	Per- cent of total
All elections	154	579	337	58. 2	169	29. 2	73	12.6
National Labor Relations Board Regional labor boards:	3	6	4	66. 7	2	33. 3		
First district	13	17	10	58.8	4	23. 5	3	17. 6
Second district	25	25	13	52.0	3	12.0	9	36, 0
Third district	3	3	3	100.0				
Fourth district	10	11	6	54. 5	2	18. 2	3	27.3
Fifth district	1	1			1	100.0		
Sixth district	8	12	10	83. 3	1	8.3	1	8. 3
Seventh district	. 2	6	6	100.0				
Eighth district	11	12	7	58.3	4	33. 3	1	8.3
Ninth district		3	2	66. 6			1	33. 3
Tenth district	18	26	22	84. 6	3	11.5	1	3.8
Eleventh district		345	165	47.8	139	40.3	41	11.9
Twelfth district	3	3	2	66. 6	1	33. 3		
Thirteenth district	2	2	1	50.0			1	50. (
Fifteenth district	16	69	55	79.7	8	11.6	6	8.7
Sixteenth district	4	15	9	60.0			6	40.0
Seventeenth district	23	23	22	95. 7	1	4.3		

The results of elections, classified by size of establishment, are shown in table 3.

Table 3.—Number and Percent of Units and of Votes Won by Trade Unions, Classified by Size of Establishment, July 10, 1934, to June 16, 1935

	Un	its involv	red	Num-	Val	id votes o	east
Number of employees in establishment	Num-	Units w		ber of em- ployees eligi-	Num-	Votes fo	r union
	ber	Num- ber	Per- cent	ble to vote	ber	Num- ber	Per- cent
All establishments	579	337	58, 2	56, 814	45, 287	26, 478	58.
1 to 250 employees:	507 23 36 13	285 16 27 9	56. 2 69. 6 75. 0 69. 2	15, 635 7, 951 14, 714 18, 514	11, 687 6, 024 12, 742 14, 834	7, 034 3, 989 7, 527 7, 928	60. : 66. : 59. :

The number of employees eligible to vote, the number of units involved, and the results of elections in terms of number and percent of units and votes won by unions affiliated and not affiliated with the American Federation of Labor are shown in table 4.

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Table 4.—Number and Percent of Units and of Votes Won By Unions, Classified by Affiliation of Unions, July 10, 1934, to June 16, 1935

	Un	its involv	red		Val	id votes cast					
Union	Num-	Units v		Num- ber of em- ployees eligible	Num-	Votes for	r union				
	ber	Num- ber	Per- cent	to vote	ber	Num- ber	Per- cent				
All elections	579	337	58, 2	56, 814	45, 287	26, 478	58,				
Unions affiliated with American Federation of Labor	534 495 39 45	302 270 32 35	56, 6 54, 5 82, 1 77, 8	52, 186 38, 405 13, 781 4, 628	41, 683 30, 889 10, 794 3, 604	23, 961 17, 161 6, 800 2, 517	57, 55, (63, (

The elections are classified in table 5 according to whether the employer had recognized the elected representatives, whether the employer had bargained with such representatives, whether a written agreement had resulted, and whether the election had resulted in a harmonious solution of the representation problem.

Table 5.—Subsequent Results, by Units, of Elections During Period July 10, 1934, to June 16, 1935

[According to latest reports available, Mar. 9, 1935, and June 11, 1935]

great and should make					Num	ber of	units			
Board	Total num- ber of units in- volved	b	nition y pany	W	aining ith pany		tten ment	0	noni- us tions	Re- sult not
	102104	Yes	No	Yes	No	Yes	No	Yes	No	port ed
All elections	579	306	203	295	205	225	259	278	211	2
National Labor Relations Board Regional labor boards First district	6 573 17	6 300 10	203	6 289 9	205	225	259	278	1 210	2
Second district	25 3 11	9 2 8	13 1 1	9 2 7	11 1	6	13 3 6	11 1 6	9 2	
Fifth district	1 12 6	1 4 6	8	1 3 6	8	2 6	9	2 6	7	
Eighth district Ninth district Tenth district Eleventh district ¹	12 3 26 345	9 2 19 167	3 137	8 1 18 167	1 1 3 137	12 167	6 3 7 137	7 1 14 167	2 2 4 137	
Twelfth district	3 2	1 1	1	1	1	1	3	1	3	
Fifteenth district Sixteenth district Seventeeth district All districts except eleventh	69 15 23 228	30 15 16 133	34 4 66	29 15 13 122	35 6 68	13 5 58	56 2 14 122	26 15 12 111	37 7 73	

¹ The reports in the trucking, garage, and auto shop cases answered "Yes", "Yes", "Stipulation", "Yes" to questions (1) Did the company recognize? (2) Did the company bargain with? (3) Did the company sign a written agreement? (4) Did harmonious relations result? but it was not clear whether this applied to the 136 units won by employee representatives. The total results are therefore shown without the figures for the eleventh district as well as a total including them.

The subsequent results of elections in units won by unions are classified according to affiliation of union in table 6.

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Table 6.—Subsequent Results of Elections in Units Won by Trade Unions, by Affiliation of Union, July 10, 1934, to June 16, 1935

Union	Num- ber of units	recog	pany nized l repre- tives	with e	pany ained elected senta- ves	agree	tten ments ilted	relatio	onious ons re- ted
	won by union	Num- ber of units	Percent of units won	Num- ber of units	Per- cent of units won	Num- ber of units	Percent of units won	Num- ber of units	Percent of units won
All unions	337	275	81.6	267	78. 6	212	62, 9	253	75. 1
Federation of Labor	302	258	85.4	250	82.8	203	67. 2	237	78. 5
tricts) International unions (excluding	270	238	88. 1	235	87. 0	196	72.6	223	82. 6
eleventh district)	107	75	70.1	72	67.3	33	30.8	60	56. 1
Federal unions	32	20	62.5	15	46.9	7	18.7	14	43.7
Independent unions	35	17	48.6	17	48. 6	9	25. 7	16	45. 7
Total units in which reports were available	579	509		500		484	*****	489	

Collective-Bargaining Practices in France

THE movement to regulate employment relations by collective agreements has made less progress in France than in many other countries. The French National Economic Council was asked recently for an opinion as to the desirability of extending the system of collective agreements and the means by which this may be done. The Council carried out an extensive inquiry concerning collective agreements in France in an effort to determine the underlying causes of the relatively slow progress of this form of labor procedure.

The findings of the study were embodied in a report adopted by the Council at a session held November 30, 1934; this report is summarized in the May 1935 issue of the International Labor Review. The report contains a survey of existing law and practice in regard to collective agreements in France, based upon agreements between employers' and workers' organizations and upon official regulations growing out of agreements between parties.

Extent of Collective Agreements

THE report of the French National Economic Council shows that on October 15, 1933, 448,900 (or 7.5 percent) of the wage earners in

¹ International Labor Office. International Labor Review (Geneva), May 1935, p. 700: Collective Agreements in France.

industry and commerce were covered by collective agreements, as follows:

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Number and Percent of Wage Earners Covered by Collective Agreements in France, by Industry

			Wage earn	ers covered
Industry group	Total num- ber of es- tablish- ments ¹	Total num- ber of wage earners 1	Number ⁹	Percent of total number in industry group
All industry group	970, 159	6, 004, 946	448, 900	7.5
Industry		344, 220	} 102,000	14.5
Building	400 800	339, 309 631, 807	22, 350	3, 5
Building materials, quarries, pottery, glass	7, 029	263, 459	200	0.0
Leather and skins	31, 400	186, 239	12, 100	6,6
Textiles	33, 180	833, 829	16, 500	2.0
Clothing, fabrics	118, 583	478, 715	15,000	3.0
Chemical industries.	7, 071	267, 986	500	. 2
Extractive industries		368, 824	188,000	51.0
Metals		1, 337, 971 271, 033	18, 000 500	1.4
Luxury and precision industries.	18, 144	42, 258	0	. 4
Paper and printing		214, 038	30,000	14.0
Inland navigation	4, 587	8, 625	0	
Maritime transport, docks		69, 934	50,000	64. (
Banking and credit, insurance Travel and hotel industries		189, 135	0	********
Travel and hotel industries	57, 088	157, 564	750	

¹ Data from the 1926 census published by the Statistique Générale de la France. The figures do not include all wage earners, but cover the majority of wage earners employed in industrial and commercial undertakings.

² Based on data compiled by the General Confederation of French Production.

As indicated in the table, collective agreements were found to be significant in a few industries, such as bakeries, coal mines, maritime transport and docks, and printing industries, but practically non-existent in textile industries, food (other than bakeries), metal working, and various branches of commerce.

The majority of agreements now in force are local, covering at most one town or even one establishment. Aside from the standard "charter-parties" peculiar to deep-sea fishing, no national collective agreements and only a few regional or departmental agreements are in force at present. The best known is the agreement in the coal field of the Nord and Pas-de-Calais Departments and the Anzin district. Two regional agreements have been signed in the building trades, one in the north of France and one in the west. The agreements in force in the printing trades usually now cover a whole department.

The number of agreements actually concluded and signed has declined steadily, according to figures compiled by the Ministry of Labor. These figures, which relate only to new contracts and not to renewals, for each year from 1919 to 1933, are as follows:

1919	557	1924	177	1929	112
1920	345	1925	126	1930	72
				1931	
1922	196	1927	58	1932	23
				1933	

These official figures are supported by reports submitted to the National Economic Council covering individual industries. "In most industries", the report states, "a great many agreements were concluded in 1919, but a few years later they were no longer in force and they have now completely disappeared."

Conditions Covered in Agreements

Few complete agreements regulate all conditions of employment. The only ones of this sort are in the printing trades and in bakeries. Most collective agreements deal only with some particular aspect of the employment relation, usually only wages. Wage agreements fix the new rate of wages, sometimes only setting the method of calculating the rate, which may vary with an economic index. Aside from wages, hours of labor have most frequently been the subject of collective bargaining, but at present there are fewer such agreements, owing to the fact that hours have been regulated by legislation. Other working conditions are seldom the subject of special agreements, but are simply dealt with as secondary issues in agreements relating to wages and hours.

Legal Status of Collective Agreements

ALTHOUGH collective agreements were mentioned as far back as the Millerand Decrees of 1899 as providing a basis for the administrative regulation of working conditions, such agreements were of very little importance up to 1914. During the war, however, the practice spread widely and was encouraged and supervised by the State.

Collective agreements have been promoted by legislation in two ways: (1) They were given a statutory basis by the act of March 25, 1919, which defined conditions of validity, scope, effect, and the various legislative texts providing for the organization of conciliation and arbitration procedures. (2) An increasing part has been assigned to collective agreements in the legislative and administrative regulation of working conditions. In regard to the statutory basis of collective agreements, the report concludes:

Consideration of the statutory basis of collective agreements shows that the legislation enacted in 1919 did not go far enough. Both parties are virtually free to evade the consequences of the agreements they have concluded. Further, such agreements have no real force as regards third parties. Finally and above all, no adequate attempt was made to promote the conclusion of such agreements.

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The act of December 27, 1892, made provision for a voluntary procedure, on a local basis, for conciliation and arbitration, but this has not produced satisfactory results, due to insufficient authority of the local magistrate, lack of any permanent conciliation and arbitration machinery and of any compulsory measures or penalty for noncompliance.

Lack of Bargaining Machinery

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Employers' organizations.—The main and sometimes the only purpose of employers' organizations in France is to study economic, social, and fiscal problems which affect all members of the group and represent the interest of these members in their dealings with public authorities. As a rule, employers' associations have neither managing nor organizing functions, and have no authority over their members. Usually the constitutions of such organizations prohibit the making of any agreement laying obligations upon the members. Agreements made are signed either by individual employers or by trade associations authorized by decision of a general meeting of members (not binding upon dissenting members).

Except in special cases, a federation of employers' associations has no authority over the trade bodies it represents for such action as collective bargaining with employee organizations. One federation alone—the National Federation of Building and Public Works Contractors—has some means of supervising collective agreements. This organization has a coordinating function, but only to the extent that the regional groups and trade associations are obligated to consult the central body before entering an agreement which affects the industry as a whole.

Thus the existing organizations of employers' associations and above all the spirit in which their activities are pursued are as unfavorable as possible to the conclusion of collective agreements. The organization would have to be radically changed before there could be any development in this field.

Workers' organizations.—As a rule, trade unions are grouped departmentally or regionally in intertrade organizations and nationally into federations for separate trades or industries. The majority of unions are affiliated to one of three confederations—the General Confederation of Labor which seeks by legislative reform to improve the conditions of the workers, the French Confederation of Christian Workers, and the General Confederation of United Labor which is more or less directly connected with the Communist Party.

Only a small proportion of wage earners in France are members of trade unions. According to the report under review, probably not more than 10 or 12 percent of the workers are organized, and this estimate includes civil servants. The number of trade unions at

present is about 6,000. There is no exact information as to their membership. The General Confederation of Labor has about 900,000 members, the strongest groups of which are maritime transport workers, dockers, miners, printers, and workers in the leather and skin industries. The French Confederation of Christian Workers claims 154,950 members, more than one-fourth of whom are salaried employees. It is not possible to ascertain the membership of the General Confederation of United Labor.

The real authority of workers' organizations does not depend exclusively or even mainly upon the size of membership, however, since central bodies exercise a genuine authority over local unions. The national industrial federations direct the functions of their affiliated unions, except in purely local questions. These national federations therefore have power to make collective agreements binding on the local unions, and these federations are the bodies normally responsible for making such agreements.

However, all workers' organizations have not taken the same attitude in regard to agreements, although most of them now favor collective bargaining. The General Confederation of Labor prior to 1914 maintained a neutral position and was somewhat suspicious of agreements, but is now anxious that they become more general. The French Confederation of Christian Workers is in favor of collective agreements but seldom unites with the General Confederation of Labor to negotiate agreements jointly.

The report points out that "the observance of contractual engagements is not so deeply rooted in French as it is in English custom. On the contrary, quite a number of recent enactments * * * tend to weaken the binding force of contracts still further. If collective agreements are to become more general * * * nothing short of a code of ethics in regard to such agreements will have to be brought into being."

Estimate of Value of Collective Agreements

Opinions differ as to just what effect collective agreements have had in France on industrial relations. In most branches of commerce and industry, employers' organizations consider that collective agreements have had a disturbing influence on industrial relations. Workers' organizations reply that they have not really been given a fair trial. Employers and employees agree that collective agreements have proved beneficial in those industries in which agreements have played an important part and have been continuously applied on a large scale over a period of time.

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Official Decrees Based on Agreements

"The specifically French form of collective agreement", according to the report, "is the official regulation of working conditions on a basis of agreement between the parties." These regulations play an important part in French labor law.

By June 15, 1934, 150 Public Administrative Regulations had been issued, fixing the method of application of the act of April 23, 1919, concerning the 8-hour day. Rules concerning special points, either in application of the Public Administrative Regulations or in exception to them, were laid down in 133 decrees or orders. All were issued on a basis either of collective agreements or an agreement reached in a mixed committee. These 283 regulations covered 520,000 industrial establishments employing 4,800,000 wage earners, and 120,000 commercial and transport companies employing 1,200,000 wage earners.

The Prefectoral Orders issued in application of the act of December 29, 1923, in regard to the weekly rest period do not have so wide a scope, yet many such orders have been issued. From 1929 to 1932, 387 Prefectoral Orders were issued. Seventeen of these were revoked, leaving 370 in force on January 1, 1933.

These examples show that collective agreements really play a greater part in France than might appear, and indicate, in the opinion of the Council, that such agreements can be applied on a large scale in the distinctively French form of administrative regulations based on agreements between parties.

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PRODUCTIVITY OF LABOR AND INDUSTRY

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Changes in Employment and Productivity in the Cement Industry

EMPLOYMENT in the cement industry increased in 1933 as compared with 1932, in spite of the fact that production fell to the lowest point in 25 years. The increase in number of employees resulted from the introduction of the 6-hour shift and 36-hour working week. This change was accompanied by a sharp drop in manhours worked. Productivity per hour was maintained at almost the same level between 1931 and 1933, there having been a very marked increase between 1930 and 1931. These and other statistics relative to the cement industry have recently been made available by the Division of Mineral Resources and Economics, United States Bureau of Mines. While the material in the article reviewed applies only to the period 1928–33, the authors state that the trend toward increased employment in the industry continued in 1934, as shown in the indexes of employment compiled by the Bureau of Labor Statistics.

The following table shows the salient statistics of the cement industry for the period 1928 to 1933.

Employment, Total Production, and Average Output per Man, in the Cement Industry, 1928 to 1933

			Employn	nent	0-130-110	Prod	uction		
Year	Aver-	Aver-	Time	employed Man	-hours	Finished	Ave per i	man	Per- cent of in- dustry repre-
1 ear	num- ber of men	age num- ber of days	Total man- shifts	Average per day	Total	cement (barrels)	Per shift	Per	sent- ed 1
928 929 930 931 932 933	31, 295 29, 274 27, 775 22, 036 17, 440 19, 536	324 319 308 279 231 196	10, 137, 187 9, 345, 890 8, 562, 897 6, 146, 564 4, 020, 861 3, 835, 657	9. 5 9. 5 9. 2 8. 8 8. 4 7. 3	96, 541, 428 88, 528, 269 78, 771, 352 53, 833, 283 33, 799, 409 28, 048, 172	157, 121, 800 152, 116, 204 140, 771, 728 111, 501, 887 67, 449, 096 56, 463, 620	15. 50 16. 28 16. 44 18. 14 16. 77 14. 72	1. 63 1. 72 1. 79 2. 07 2. 00 2. 01	89. 1 89. 1 87. 3 88. 6 87. 9

¹ Calculated for each year by dividing the quantity of finished cement produced at the mills included in the study by the total production.

965

¹ Pit and Quarry (Chicago), August 1935, p. 24: Trends in Employment and Productivity of Labor in Cement Industry, by H. H. Hughes, E. T. Shuey, and W. W. Adams.

The figures in the table cover 129 plants, representing 87 to 89 percent of the industry on the basis of production. In 1928, the year of peak production, the man-shifts of employment for 31,295 men aggregated 10,137,187 and the man-hours 96,541,428 the working day was 9.5 hours, the days worked 324, and the output per man per shift 15.50 barrels and per hour 1.63 barrels. At the end of 5 years, in 1933, employment had fallen 38 percent, man-shifts 62 percent, man-hours 71 percent, and the average length of shift 23 percent, but output per man per shift had declined only 5 percent while the hourly output per man increased 23 percent. Man-hours of employment decreased at a somewhat greater rate than production between 1928 and 1933, owing to the increase in labor productivity. In the report here reviewed the increased productivity is attributed to improved technique and increased efficiency of operation. put per man per hour reached the maximum in 1931 when the average was 2.07 barrels; it was only slightly lower in 1932 (2.00 barrels) and 1933 (2.01 barrels).

The separate statistics for quarry, crusher, mill, and miscellaneous employees show differences in the changes in productivity. Mill employees, who outnumber the quarry and crusher employees by 4 to 1 in the average plant, maintained practically the same average output per man per shift between 1928 (18.82 barrels) and 1933 (18.19 barrels) in spite of a decrease in the average daily hours from 9.5 to 7.3. Hourly output per man for mill employees increased from 1.98 to 2.50 barrels in this period. Quarry and crusher employees handling quarry rock and overburden showed a decrease in output per man per shift from 30.59 short tons in 1928 to 25.70 in 1933, a reduction in hours per day from 9.6 to 7.4, and an increase in output per man per hour from 3.20 short tons in the earlier year to 3.47 in 1933.

It is stated by the authors of the report that there was a definite trend toward shorter hours between 1928 and 1933. In 1933 over half the labor force worked less than 8 hours and 93 percent less than 9 hours; in 1928 no employee worked less than 8 hours a day and 39 percent of the total worked 10 hours or longer. A tendency has existed throughout the period studied for employees on short shifts to produce at a higher rate than long-shift employees. Thus, the 1933 returns show that "the group of employees, 35 percent of the total, who worked fewer than 7 hours daily produced 2.25 barrels of cement per man-hour; 23 percent, who worked 7 to 8 hours, produced 2.06 barrels per man-hour; and 35 percent, who worked 8 to 9 hours, produced only 1.89 barrels per man-hour." As it is not known whether the more efficient plants are those where hours are shortest, the report indicates that further study would be necessary to account fully for existing differences in productivity.

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Productivity of Coal-Mine Labor in Japan

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hort hus, at of rrels proto 9 down test, ount AN INVESTIGATION of the productivity of Japanese coal-mine labor, as reported by the United States Department of Commerce, disclosed that from 1926 to 1932 per-capita output had increased as a result of the use of modern equipment and that the low output in past years had been due mainly to antiquated equipment.

In 1926 the Mining Bureau of the Japanese Department of Commerce and Industry reported 235,044 persons (both surface and underground workers) engaged in the coal-mining industry. Their percapita output in that year was 133.7 metric tons. In 1932 the output per annum was 203.3 metric tons—an increase of 52 percent.

Labor Productivity in Japanese Coal-Mining Industry 1

and the state of t	Numb	er of—	Metric tons of coal									
Year	Workers	Working days	Total output (in thou- sands)	Annual output per worker	Daily output per worker							
1928	235, 044 239, 167 237, 890 228, 761 204, 526 137, 976	57, 433, 472 57, 991, 079 60, 115, 244 53, 619, 857 49, 404, 302 34, 964, 637	31, 426 35, 530 33, 860 34, 257 31, 376 28, 053	133. 7 148. 5 142. 3 149. 7 153. 4 203. 3	0. 547 . 612 . 563 . 638 . 633 . 800							

¹ Figures for 1926-30 from Statistics, 1931, Department of Commerce and Industry, published in November 1932. Figures for 1932 taken from Mining Bureau's Tendency of the Mining Industry in Japan, 1932, published in March 1933.

The above tabulation includes all workers in the coal industry. Data on number of days worked by miners alone were not available for 1926 and 1927. The annual output per miner for the 5 subsequent years was as follows:

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1928	-		eter -	-	-	-	-				 	100					-	_		_	_	_	_	_			-	_		_	-		-	-		485	,
1929	 _	-	-	_	Gar.	_					 		 			_	-			_	_		_	_	_	_		_	-		-	_	_		_	500)
1930	100	-	-	-	on.	_	_							10 0		00	-			_		0		_	_			9	960				_			507	ľ
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1932	_	_	_	_	_	-	_	_	_	-	 _			_			_	_		_	_		-	_	_	-	_	_	_		-				- 200	618	3

¹ U. S. Department of Commerce. Bureau of Foreign and Domestic. Commerce Trade Information Bulletin No. 821: Fuel and Power in Japan. Washington, 1935.

HOUSING CONDITIONS

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Status of Federally Aided Low-Cost Housing, as of August 1, 1935

THE Housing Division of the Federal Emergency Administration of Public Works published summary statistics on the status of its program of low-rent housing as of August 1, 1935, howing that sums had been allotted for 22 Federal and 7 limited-dividend housing projects. Of the Federal housing projects construction had been started on 5, demolition begun on 1, sites acquired or being assembled for 7, condemnation proceedings filed or authorized on 3, title acquired on 2, bids received for 3, and the status of 1 was unspecified. Five of the 7 limited-dividend projects were either partly or wholly finished or occupied on August 1 and the remaining 2 were expected to be ready for tenancy in the first half of September.

The statement of the Public Works Administration is shown in tabular form.

Status of Federally Aided Low-Rent Housing Projects on August 1, 1935

Feaeral projects

Location and name	Type of bu	Size of project		Status	Cost	
of project	Multiple	Single family	Living units	Acre-		0000
Atlanta, Ga.: Techwood	3-story dormitory; 3-story apart- ments.	2-story row houses.	604	24.8	Construction 30 percent complete.	\$2, 875, 000
University	2- and 3-story flats.1	Row houses	675	19. 0	Construction 7 percent complete.	2, 500, 000
Atlantic City, N. J.: Site A.	2-story flats 1	do	270	8.0	Site acquired	1, 300, 000
Boston, Mass.: Old Har- bor Village.	3-story walk-up apartments.2	2-story row houses.	960	19. 6	Condemna- tion proceed- ings filed.	5, 500, 000
Brooklyn, N. Y.: Williamsburg. Chicago, Ill.:	4-story walk-up apartments.		1,628	21.0	Demolition begun.	12, 783, 000
South Park Gardens.	3-story apartments.	2-story row houses.	1,701	57.0	Site acquired	9, 200, 000
Blackhawk Park Jane Addams House. Cincinnati, Ohio: Basin housing.		do	2, 267 300 1, 278	80. 0 6. 3 24. 0	Site acquired Site being assembled.	14, 300, 000 1, 335, 000 7, 000, 000

¹ Release No. P. W. 39147.

Status of Federally Aided Low-Rent Housing Projects on August 1, 1935-Con.

Federal projects—Continued

Location and name	Type of bu	Size		Status	Cost		
of project	Multiple	Single family	Living units	Acre-	Status		
Cleveland, Ohio: Cedar Central	3-story apartments.		654	18. 0	Construction	\$3, 279, 000	
Outhwaite	2- and 3-story apartments, and flats.	Row houses	635	21.0	begun. Bids received.	3, 084, 000	
West Side Detroit, Mich.: East Side.	Apartments		600 1,032	22. 0 34. 0	Title acquired.	3, 000, 000 5, 500, 000	
Indianapolis, Ind.: Com- munity housing	2- and 3-story apartments.		1,044	22. 1	Construction begun.	3, 025, 000	
Miami, Fla.: Sixty-sec- ond Street.		1-story row houses.	255	42.0	Site acquired	1, 000, 000	
Milwaukee, Wis.: Park-	3-story apartments.	2-story row houses.	458	42.0	Title acquired.	2, 230, 000	
Minneapolis, Minn.: Summer Field.	2- and 3-story apartments.	Row houses	1, 100	42.0	Condemna- tion author- ized.	6, 000, 000	
Montgomery, Ala.: Bell Street	~~~~~	1- and 2-story row houses.	100	13.8	Bids received.	244, 000	
Thurman Street		do	158	7.0	Construtcion begun.	459, 000	
Nashville, Tenn		do	276	18.0	Site acquired	1, 100, 000	
Do	2-story flats	do	550	22.2	do	1, 500, 000	
Washington, D. C.: War College.	do	Row houses	508	18. 1	Condemna- tion proceed- ings filed.	3, 000, 000	

Limited-dividend projects

Altavista, Va.: Altavista Housing Corporation.		Small single- family houses.	50	 Completed Aug. 15, 1934.	\$84,000
Bronx, N. Y.: Hillside Housing Corporation.	A part ments- highest 6 stories.		1, 416	 First 3 units occupied.	5, 060, 000
Euclid, Ohio: Euclid Housing Corporation.		Individual and double houses.	*****	 22 houses oc- cupied; 11 under con- struction.	500, 000
Philadelphia, Pa.: Carl Mackley Houses.	3-story apartments.		284	 Completed June 27, 1935.	1, 039, 000
Queens, N. Y.: Boulevard Gardens.	A part ments— highest 6 stories.		960	 4 units occupied; 6 units ready Nov. 1, 1935.	3, 450, 000
Raleigh, N. C.: Boylan Housing Corporation.	Apartments		54	 Ready for oc- cupancy Sept. 1 to	198, 600
St. Louis, Mo.: Neighborhood Gardens.	do		252	 15, 1935. Ready for oc- cupancy Sept. 15, 1935.	640, 000

Individual entrances.
 Probable type.
 No data.

Expenditures for the projects listed will amount to over \$100,000,-000 when work is completed but it is not shown what percentage of the total was secured from the Federal Government. The total sum made available to the Public Works Administration for low-rent housing was \$283,000,000. In all 17,053 living units will be furnished by the 22 Federal projects and 3,016 such units by the 6 limited-

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dividend housing groups for which data were given. The total cost of the Federal building projects is to be \$90,214,000 and that of the limited-dividend projects \$10,971,600. The plans call for apartment houses in 18 of the 22 Federal projects and for houses in 19. In 15 projects both apartments and individual dwellings are specified. Among the limited-dividend projects individual houses are less conspicuous, there being 5 apartment-house projects and only 2 for houses. The 29 developments for which allotments have been made are located as follows:

Total developments	29 Minnesota
	Missouri
Alabama	2 New Jersey
District of Columbia	1 New York
Florida	1 North Carolina
Georgia	2 Ohio
Illinois	3 Pennsylvania
Indiana	1 Tennessee
Massachusetts	1 Virginia
Michigan	

Municipal Lodging Houses in Leeds, England 1

IN THE course of the slum-clearance operations in Leeds, England, several lodging houses will be demolished and a number of municipal lodging houses erected. These will be of two types, one to accommodate persons who will be permanent residents and the other for transients who merely stay a night or so.

Plans for the first of these municipal hostels have recently been completed. It will be of tire-resisting construction, with steel framework and built of brick. It is designed to accommodate 504 men and women, with separate bedroom accommodation for each lodger.

The building will be set back 40 feet from the roadway, and will have four floors, in addition to the ground floor and basement. The 4 floors will contain 308 rooms for men, and 196 for women, in separate wings.

Each floor of the men's wing will contain 77 bedrooms, the majority measuring 7 feet 6 inches by 7 feet 3 inches. There will, however, be 12 rooms measuring 7 feet 6 inches by 13 feet 6 inches, for permanent lodgers. In addition, each floor will have three linen closets. This wing will also include a large room with 300 lockers, 42 lavatory basins, 6 bathrooms, and a room fitted with electric drier where the men may wash and dry their own clothing. Other facilities will include storage, shoe-repair, and shoe-cleaning rooms. The women's wing will provide similar accommodations on a smaller scale. Each

¹ Data are from report by Ernest E. Evans, American consul at Bradford, Aug. 8, 1935.

floor will contain 49 rooms and there will be 10 rooms for permanent residents.

Each section of the building will contain two large common rooms to be used for recreational purposes, a writing room, and a large dining room with a canteen common to both dining rooms. When required, a hall to seat over 500 persons can be created within a few minutes by connecting the large common rooms.

The basement will contain a kitchen and scullery, and space for storage of wet and dry food. The kitchen equipment will include preparation tables, hot plates, steamers, roasting oven, gas ranges,

and gas rings.

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Provision is to be made for a large boiler house, fuel store, engineers' workshop, gas-fed heating and hot-water services. A large laundry is to be provided, fitted with electrically driven equipment. The laundry will include a linen-storage space and fumigating chamber, and clean-and-dirty-linen lifts to serve each of the upper floors.

No figures are available concerning the cost of the scheme, but it is expected that these hostels will be self-supporting.

HEALTH AND INDUSTRIAL HYGIENE

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Lighting Conditions in Connecticut Clothing Factories

IN CONNECTION with a survey 1 of the sewing trades in Connecticut, made by the Women's Bureau of the United States Department of Labor, a special study of lighting conditions was made to determine the effects of good and poor light on the health

and efficiency of women in the clothing industry.

The Women's Bureau took as its standard by which to measure adequate and inadequate lighting facilities, the code approved by the American Standards Association. This gives different levels of illumination to correspond to the variations actually existing in the specified processes. For sewing light goods, for example, illumination of from 15 to 10 foot-candles ² and for sewing dark goods, from 100 to 25 foot-candles is considered desirable, depending on the degree of fineness and other conditions. A foot-candle meter, a simple instrument by which illumination is read directly from a scale without computing, was used to measure the amount of light.

Lighting conditions and equipment in 32 clothing factories employing slightly more than 2,600 women, were studied and measured, involving 935 candle meter readings, at the working point of 459 positions. In order to get the maximum advantage of natural daylight, readings were made between 10 a. m. and 3 p. m. Wherever possible, two readings were taken for each position, the first by daylight only, and the second with artificial light added. The study was

made in the month of January.

An important factor in determining the degree of adequacy of the lighting equipment in sewing rooms is the color of the material being worked upon. Practically three-fifths of the women were working on dark materials when the tests were made. Higher intensity is necessary for dark materials, and the lighting code recommends a minimum requirement of 25 foot-candles for work of that type. In the Bureau's study, 91.8 percent of the readings taken under natural light on bright days fell below this level, and on cloudy days all fell below it.

¹ U. S. Women's Bureau Bul. No. 109: The Employment of Women in the Sewing Trades of Connecticut, part IV, Lighting in Clothing Factories (p. 41). Washington, 1935.

¹ A foot-candle is the unit of measurement used to specify lighting requirements. The light rays from a bare 25-watt tungsten filament lamp, falling perpendicularly on the surface of a newspaper held 5 feet away, represent approximately 1 foot-candle of illumination.

With artificial light added, 54.5 percent of the readings taken on bright days and 75.7 percent of those taken on cloudy days, still fell below the 25 foot-candles regarded as the minimum necessary for acceptable lighting.

Under certain conditions, the recommended intensity for sewing on dark materials is 100 foot-candles. This standard was met in

only one instance in the course of the survey.

Five factories where women were working on light-colored materials were visited on sunny days, and 6 on cloudy days. Nearly half (49.3 percent) of the readings taken on the sunny days with natural light failed to reach the recommended level of 10 foot-candles, and the addition of artificial light left 17.6 percent of the readings still below the minimum standard. On cloudy days the record was even less favorable. Natural light produced less than 10 foot-candles of illumination in 80.5 percent of the readings, and natural light with the aid of artificial light failed to realize the recommended level in 29.1 percent of the measurements. With the electric lights on, the higher recommended intensity of 15 foot-candles was recorded in 66.2 percent of the readings on bright days, and in 41.9 percent of those made on overcast and cloudy days.

The Bureau points out, moreover, that the readings were taken at a time when, almost without exception, machine operators and hand workers had the benefit of a maximum of the available daylight. At other times, as in the early morning or late afternoon when the workers had to depend upon artificial light only, the intensity of illumination would obviously be much less than that shown in the

readings, which combined artificial light and daylight.

Lighting Equipment

Types and installations of lighting equipment showed a lack of thought and system in almost every factory. In some rooms there was no uniformity in the type of light furnished, even for persons doing the same kind of work; at the same worktable some lights hung high and others low; some had shades, others were unshaded; some work positions had too much light, while others were dimly lighted.

A type of light in common use was the drop light in a deep bowl or a tin reflector, close fitting, and with the lamp often extending below. Frequently the reflector was of tin painted green on the outside, and usually the lamps were hung over the workbenches so that each served 2, 3, or 4 operators. * * *

Annoying or really harmful glare was noted in many plants. In a number of cases the workers had put up their own crude substitutes for shades. * * *

A factory with 48 machine operators had the machine positions lighted by 12 lamps of 100 and 150 watts, only 2 feet above the tables, all unshaded and 5 of them unfrosted. In another factory girls stated that they often sewed in the dark rather than endure the glare of the light. * * *

Shadows on the work, not so noticeable to the casual observer as glare, are a very important consideration for the worker. In a number of factories, girls

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complained of "shadows from the lights." One assistant forelady, indicating a certain position, said, "I used to work at that machine. A shadow was on the presser foot and needle all the time." A different situation is described in the following: "Lights are placed regularly, one to each two operators, purposely to avoid shadows. Only a few slight shadows were observed in this plant."

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Prevalence of Anthraco-Silicosis in Pennsylvania

THE actual physical condition and the occupational and medical histories of 2,711 men employed in the anthracite fields of Pennsylvania form the basis of a study recently made to determine the prevalence, among mine workers, of anthraco-silicosis (miner's asthma), an occupational disease produced by mine dust.

The study was made by the United States Public Health Service, in cooperation with the coal operators, the United Mine Workers of America, and representatives of Pennsylvania State departments, particularly the department of labor and industry. The mine operators contributed by enabling the field staff to study the various phases of occupational environment in the mines selected. The union assumed the responsibility of getting the men to report for physical examination and assisted in securing detailed occupational histories. The personnel of the Public Health Service carried out the study, which lasted about 4 months. Three mines were selected for the survey, 1 in each of the 3 districts into which the anthracite field is divided by geological formation and methods of mining.

The men selected for study were divided into occupational groups on the basis of the extent of their exposure to free silica in the dust. Of the number examined, 361 who were exposed to less than 5,000,000 particles of dust per cubic foot of air formed a control group, as that dust content was the specified minimum used for statistical analysis. For the purpose of the study, a large number of atmospheric dust samples were taken, which showed that, with the exception of rock working operations, chamber and pitch mining, and chute loading were the dustiest occupations in the mining of anthracite. with chute loading it was found that motormen, because of their presence during the loading process, were exposed to a heavy concentration of dust. The dustiest occupations on the surface were found in connection with a dry breaker where slate pickers and certain other workers were exposed to a very high dust concentration, while on the other hand workers in wet breakers were exposed to relatively low concentrations. For all the workers, it was found that 39 percent were exposed to more than 200,000,000 particles of dust per cubic foot, 62 percent to more than 50,000,000 particles, and 38 percent to

¹ Pennsylvania. Department of Labor and Industry. Anthraco-Silicosis (Miner's Asthma). A preliminary report of a study made in the anthracite region of Pennsylvania by the United States Public Health Service. Harrisburg, 1934.

less than 26,000,000 particles per cubic foot. These conditions are considered fairly representative of conditions which have obtained for a number of years in the anthracite coal mines, as, with the exception of very recent improvements in mechanical loading and the use of wet methods of cleaning coal, working conditions are said to be about the same as those obtaining 20 or 30 years ago.

Physical-Examination Findings

The physical examination of the miners indicated that 616, or 22.7 percent, of the 2,711 active workers had anthraco-silicosis, and that 106 of these were in the more advanced stages. The workers diagnosed as having the disease reported attacks of pleurisy, pneumonia, and severe colds more often than the group used as controls while among a group of 135 anthracite workers who were totally disabled such illnesses occurred from 2 to 5 times as often as among the active workers who had anthraco-silicosis.

The principal symptom of anthraco-silicosis among the men examined was shortness of breath, frequently associated with productive cough, while in the more advanced cases there was found weakness, chest pain, gastric disturbances, and hemoptysis (spitting of blood), although fever and night sweats were seldom found. Other symptoms present among the affected workers were various lung changes such as prolonged expiration, change in the contour of the chest, decreased chest expansion, change in breath sounds, etc., and clubbing of the fingers. In cases in which infection complicated the condition and in those workers who were markedly or completely disabled there was frequently found loss of weight and strength, and cyanosis, persistent râles were invariably found, and there was often impairment of the In the group diagnosed as having anthraco-silicosis, at least four of the symptoms listed were present in each person in addition to other positive evidence disclosed by the history and the X-ray examination.

Tuberculosis as a complication of anthraco-silicosis was found among 124, or 4.6 percent, of the workers examined, the percentage of those affected with tuberculosis increasing among the men suffering from more advanced stages of anthraco-silicosis.

Length of Exposure to Dust

In all the occupations except rock workers, less than 2 percent of the men developed silicosis, regardless of the amount of dust in the air, when the period of employment did not exceed 15 years. After employment from 15 to 24 years the prevalence of silicosis was much greater, about 14 percent of the men exposed to dust containing less than 5 percent free silica, having anthraco-silicosis when the dust concentration was 100,000,000 to 199,000,000

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particles per cubic foot, 29 percent when the dust concentration was 200,000,000 to 299,000,000 particles, and 58 percent when the dust count was in excess of 300,000,000 particles. The rates were much higher when the period of employment exceeded 25 years, about one. fourth of the men in the nonmining occupations underground (rock workers excepted) showing evidence of anthraco-silicosis. Among rock workers the disease developed more rapidly, about 13 percent having stage 1 anthraco-silicosis when the working period was less than 15 years, while 9 out of 10 rock workers who had been employed more than 25 years had the disease. The dust to which these workers were exposed contained about 35 percent free silica. Nearly all the regular miners and mine laborers who had worked where the dust count exceeded 300,000,000 particles had anthraco-silicosis after employment for more than 25 years. Both the miners and mine laborers who had worked continuously at the coal face generally fared worse than those who had shifted occasionally from mining to other inside jobs.

There was little difference in the age distribution of the different groups with the exception of the rock workers who had the highest proportion of men at the younger ages. In spite of this favorable factor, however, a larger proportion of these workers had anthracosilicosis than was found in any other group.

Safe Limits of Dust Exposure

In order to determine the safe limits of dust exposure, the groups working in atmospheres containing less than 100,000,000 particles of dust were subdivided so as to determine as far as possible the quantity of dust which could be tolerated with no adverse effect upon health. The number exposed to relatively small quantities of dust containing less than 5 percent free silica was too small to afford reliable information, but it appeared from the data available that an atmosphere containing less than 50,000,000 particles would result in a negligible number of cases when the silica content was less than 5 percent. The safe limit in the gangways when the dust contains about 13 percent free silica was tentatively set at 10,000,000 to 15,000,000 particles, while among rock workers who were exposed to about 35 percent free silica in the dust the safe limit appeared to be from 5,000,000 to 10,000,000 particles.

Measures for the Control of Dust

ALTHOUGH different methods of dust control are in use in some of the mines, the report lists certain preventive measures which have been found to be effective in different industries regardless of whether they are being followed to some extent in the anthracite coal-mining industry. It is important to control dust at its point of origin, and, to effect this, thorough wetting by water is a general method in use. Wet methods may be used in almost all coal-mining and processing methods and will result in a decided improvement in working conditions. Local exhaust ventilation has also been successfully employed in rock drilling in open excavations and it is possible that it can be used in drilling operations in anthracite mines. If this type of dust-removal device is adopted, however, wet methods will still be necessary in coal- and rock-loading operations.

Adequate ventilation throughout the mines would eliminate much of the dust, and, while satisfactory standards of air velocity in these mines have not yet been established, an air movement of at least 50 feet per minute is regarded as desirable from the standpoint of elim-

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Mechanical methods of loading coal have been found to contribute substantially to the solution of the dust problem, a dust count of less than 30,000,000 particles per cubic foot of air having been found in the mechanical loading operations in one mine.

Since a large amount of dust is produced by blasting operations, especially in dry mines, the firing of shots should be done only at the

end of the shift.

The sand used in haulage ways to prevent slipping of the transport motors has been found to be an important source of silica dust, and thorough wetting of the roadbed would reduce this hazard.

The spread of respiratory infection by workers having active pulmonary tuberculosis may be checked by not permitting workers so affected to work underground or in dusty occupations above ground. In order to detect cases of tuberculosis of the lungs and anthracosilicosis which have progressed far enough to endanger future working capacity, physical examinations including X-rays of the chest should be given all applicants for work and to all anthracite mining employees annually. Periodic examinations afford a check on the degree of success of the preventive measures, and the records obtained may be put on a comparable basis if the procedure followed is standardized, preferably under the supervision of a permanent medical board composed of physicians competent in the diagnosis of anthracosilicosis and other diseases of the respiratory system. The methods of medical control which have been found practical and effective in other countries having a similar problem, such as South Africa, Australia, and Ontario, Canada, are recommended as worthy of serious consideration, as well as the methods recommended by the special industrial disease commission in Massachusetts in 1934.2 In the South African gold mines the area and the number of employees

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¹ See Monthly Labor Review, May 1934 (p. 1086).

closely parallel the situation in the Pennsylvania anthracite fields. In the South African area periodic examinations of both white and native miners are carried out under the Miners' Phthisis Medical Bureau and examinations are made at intervals of workers suspended from employment or receiving compensation because of their respiratory condition. A medical board of appeal, established in 1925, passes upon cases when there is dissatisfaction with the decision of the medical bureau.

It is evident that no single measure is applicable to all dusty operations and processes, and all means of prevention, therefore, must be practiced to insure success in the solution of the problem.

Employers Required to Furnish Free Medical Supplies in El Salvador 1

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THE furnishing of free first-aid supplies is required of all employers of more than 10 workers in El Salvador, by a decree of July 22, 1935.² Such supplies are to be paid for by the employer, and any employer who does not, within 2 months after the publication of the act, meet its requirements will incur a fine of 20 colones ³ per month until he complies. The fine is to be collected officially by the mayor of the municipality and donated to the hospital within his jurisdiction or, in case there is none, to the nearest hospital.

The decree lists the supplies which are to be furnished and specifies that all employees, whether employed in factory or fields, are to receive the benefits of the law. Supplies which are thus used must be replaced by the employer at his own expense within 8 days. Failure to make the replacement is subject to the same fine as failure to provide the original supply.

The Ministry of Welfare and Health is authorized to make the regulations needed to carry out the present law.

Data are from report by Joseph E. Maleady, American vice consul at San Salvador, July 29, 1935.

³ El Salvador, Diario Oficial, July 26, 1935.

^{*} Colon at par=50 cents.

INDUSTRIAL ACCIDENTS

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Occupational Fatalities in 1934

FATAL accidental injuries arising out of or in the course of employment increased during 1934 according to a report issued by the Metropolitan Life Insurance Co. This increase in fatalities followed the improvement in the employment situation which took place in 1934. The estimates of such fatalities place the number at not less than 16,000, which is approximately 1,500 more than occurred in 1933, or an estimated increase of 10.3 percent.

The death rate from occupational accidents among adult white male industrial policyholders of the company increased at an even greater rate, 11.3 percent. This rise in the death rate among insured persons is the first upturn in the trend of death rates for occupational accidents during the entire period of the depression. From the relatively high figure of 35.9 deaths per 100,000 policyholders in 1929 the death rate dropped to 21.2 deaths per 100,000 in 1933, a reduction of 40.9 percent.

The following table shows the death rates per 100,000 adult male policyholders for each year from 1929 to 1934, by cause of injury.

Death Rates From Occupational Accidents Among Industrial Policyholders of Metropolitan Life Insurance Co., 1929 to 1934

Cause of injury		Death rates per 100,000 white male policyholders, aged 15 and over					
		1930	1931	1932	1933	1934	1933 to 1934
All occupational accidents	35. 9	31.0	27. 2	22. 9	21. 2	23. 6	+11.3
Accidental burns (conflagration excepted)	1.1 .5 1.7	1.7 .3 1.5	1.0 .4 1.3	1.0 .4 1.0	1.3	.9 .5 1.0	-30.8 +25.0 +42.9
Traumatism by fall Traumatism in mines and quarries Traumatism by machines	5.1 4.7 4.5	5. 4 3. 5 3. 5	4.8 3.0 3.0	3.9 2.7 2.4	3.1 2.8 2.2	3.7 2.1 2.6	+19.4 -25.0 +18.2
Steam-railroad accidents. Street-railway accidents Automobile accidents	4.9 .3 3.8	2.6 .4 3.8	1.9 .5 4.6	1.6 .3 3.6	1.8 .2 3.7	2.0 .4 4.5	+11.1 +100.0 +21.0
Electricity (lightning excepted)	2. 4 6. 9	1.9 6.4	1. 5 5. 2	5.1	4.5	5.1	+60.0

Exclusive of deaths in collisions between automobiles and railroad trains or engines, and between automobiles and street cars.

¹ Metropolitan Life Insurance Co. Statistical Bulletin, July 1935.

The table shows that, with the exception of accidental burns and injuries in mines and quarries, the death rate for the principal causes of injury was higher in 1934 than 1933.

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A rise of 21.6 percent in occupational automobile accidents in 1934 as compared with 1933 is regarded as particularly disturbing. These accidents do not include collisions between automobiles and railroad trains or engines nor collisions between street cars and automobiles. The death rate of 4.5 per 100,000 for occupational automobile fatalities has been exceeded only once in the company's experience covering a 24-year period. The highest rate for this type of accidents—4.6 per 100,000—was recorded in 1931, and in 1933 and 1934 these accidents led all others as a cause of death.

Street-railway accidents showed the greatest increase from 1933 to 1934, although these accidents involve relatively few deaths. Among the more important causes of occupational deaths, traumatism by falls rose 19.4 percent in 1934, by machines 18.2 percent, and by railroad accidents 11.1 percent.

Occupational Injuries to Women in the United States, 1930 and 1931

THE accident experience of 16 States, which supplied figures classified by sex to the United States Women's Bureau, shows for each State a substantial decrease from 1930 to 1931 in the total number of accidents. The decrease, however, is proportionately smaller for injuries to women than for injuries to men.

The basic cause of the general decline is attributed to the decrease in exposure to industrial hazards resulting from unemployment, but it is pointed out that additional information leads to the conclusion that a measure of progress in safety work is partly responsible. The lesser decline for women's injuries is considered the result of proportionately less unemployment in the woman-employing industries than in such large man-employing industries as construction, iron and steel, or mining.

According to the study, a much larger proportion of women than of men suffered from infections following minor injuries. Available data showed that injuries to fingers, hands, and arms were most frequent among women, due largely to employment of women as machine operators, while injuries to other parts of the body were more common in men's accidents.

The study points out that in each State the women under 21 years of age were injured more often than the women in any other age group, while women over 45 years of age suffered comparatively few

¹ U.S. Women's Bureau Bul. No. 129: Industrial Injuries to Women in 1930 and 1931 Compared with Injuries to Men. Washington, 1935.

injuries. A large proportion of the accidents to the young women were caused by machinery. The most frequent source of injury to women over 21 was "falls."

Manufacturing outranked other industries in the number of injuries both to women and to men in all but one State, and generally was responsible for a larger proportion of women's accidents than of men's. Clerical, professional, and personal service was also an important group in number of women's injuries.

Attention is called to the fact that the injured woman received much less in compensation than the injured man, because of her lower wages. The great majority of the injured women earned less than \$20 a week, while only a small percent of the men earned so little.

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Bituminous Coal Conservation Act of 1935

THE first session of the Seventy-fourth Congress passed an act to stabilize the soft-coal-mining industry, to promote its interstate commerce, and to protect the right of mine workers to organize and bargain collectively (Public Act No. 402).

Coal Commission

THE act establishes in the Department of the Interior a Bituminous Coal Commission of five members (serving for 4 years), appointed by the President and authorized to formulate a bituminous-coal code as a working agreement for the producers accepting its terms.

It is provided that the code shall include the following terms and conditions: An organization of 23 district boards of coal producers is to be created, each board to consist of not less than 3 nor more than 17 members. Of the members, one is to be chosen by the organization of employees representing a preponderant number of employees in the industry in the district in question, and the others are to be producers or their representatives. The respective boards are charged with administering the code.

A board may, of its own motion or when directed by the Commission, establish minimum prices and "make such classification of coals and price variations as to mines and consuming market areas as it may deem necessary and proper. In order to sustain the stabilization of wages, working conditions, and maximum hours of labor, said prices shall be established so as to yield a return per net ton for each district * * equal as nearly as may be to the in a minimum price area weighted average of the total costs, per net ton tonnage of such minimum price area." Thereafter, upon satisfactory proof by any district board of a change in excess of 2 cents per net ton in the weighted average of the total costs in the price area, the Commission is empowered to increase or decrease the minimum prices accordingly. The act authorizes the district boards, under rules established by the Commission, to coordinate the minimum prices in common consuming areas upon a fair competitive basis. Commission is to make rules regulating the procedure for the establishment of minimum prices, and may approve, disapprove, or modify

the minimum prices established by the district boards; its action shall be binding upon all code members within the district. The Commission is also authorized to fix maximum prices to protect coal consumers against unreasonably high prices.

The act permits the voluntary organization by producers of an agency for the marketing of coal. Such agencies must be representative of at least one-third of the tonnage of any producing field and must function under the supervision of the district boards and the Commission.

Additional duties of the Commission are to investigate the following:

(1) The economic operation of mines, with a view to the conservation of the national coal resources.

(2) The safe operation of mines, for the purpose of minimizing the working hazards.

(3) The rehabilitation of mine workers displaced from employment, and the relief of mine workers partially employed. Its findings in these matters are to be transmitted to the proper Government agency for relief, rehabilitation, and subsistence homesteads.

(4) The possibility of lowering distributing costs, for the benefit of consumers.

The Commission is also directed to investigate the necessity for the control of production of bituminous coal and the methods of such control, including "allotment of output to districts and producers within such districts" and to report its conclusions and recommendations to the Secretary of the Interior for transmission by him to Congress not later than January 6, 1936.

Labor Provisions

THE following provisions relating to labor relations must be incorporated into the code and be accepted by every member:

(a) Employees shall have the right to organize and bargain collectively through representatives of their own choosing, and shall be free from interference, restraint, or coercion of employers, or their agents, in the designation of such representatives or in self-organization or in other concerted activities for the purpose of collective bargaining or other mutual aid or protection; and no employee and no one seeking employment shall be required as a condition of employment to join any company union.

(b) Employees shall have the right of peaceable assemblage for the discussion of the principles of collective bargaining, shall be entitled to select their own checkweighman to inspect the weighing or measuring of coal, and shall not be required as a condition of employment to live in company houses or to trade at the

store of the employer.

There is also established a Bituminous Coal Labor Board of three members, appointed by the President and assigned to the Department of Labor. This Board is to consist of one representative of the producers, one representative of the organized employees, and a

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The estabnodify chairman who must be an impartial person with no financial interest in the industry or connection with any organization of the employees. These members serve for terms of 4 years each. The Board is empowered to adjudicate disputes relating to labor relations, and "to determine whether or not an organization of employees has been promoted, or is controlled or dominated by an employer in its organization, management, policy, or election of representatives." To determine the "freely chosen representatives of the employees", the Board may conduct elections. It may offer its services as mediator between a producer and its employees when a dispute "is not determined by the tribunal set up in a bona fide collective contract."

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Maximum hours agreed upon between the producers of more than two-thirds of the annual national tonnage and representatives of more than one-half of the mine workers are binding upon all code members. Likewise, collective wage agreements concluded in any district between the producers of more than two-thirds of the annual tonnage production and representatives of the majority of the mine workers in the district shall apply to all code members operating in the district.

Other Provisions

THE act enumerates certain practices such as deceptive advertising, fee splitting, and the giving of secret rebates, and prohibits these as violations of the code.

An excise tax of 15 percent of the sale price at the mine is imposed upon the sale or other disposal of all bituminous coal produced in the United States. Any coal producer who complies with the provisions of the code is entitled to a rebate of 90 percent of the amount of the tax. After hearing and notice, the Commission may revoke the code membership of any producer upon proof of his failure to comply with the duties imposed by the code and the act. Provision is made for court review of all orders, rules and regulations of the Commission and the Labor Board.

The office of consumers' counsel of the National Bituminous Coal Commission is created in the Department of the Interior, which shall "appear in the interest of the consuming public in any proceeding before the Commission", and conduct independent investigations of matters relating to the bituminous-coal industry.

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WORKMEN'S COMPENSATION

Murder of Employee on Duty Held to be a Compensable Accident

AN INTERESTING case involving the question of when murder is an accident "arising out of employment" under the work-men's compensation act was recently decided by the Supreme Court of Colorado. It was held by the court that a murder is an accident "arising out of employment" when such accident was incurred because of the employment (London Guarantee & Accident Co., Ltd., et al. v. McCoy et al., 45 Pac. (2d) 900).

McCoy was a sales agent of the Liberty Trucks & Parts Co., and in connection with his duties it was necessary for him to get in touch with a man named Mitchell. He went to the home of Decino, Mitchell's father-in-law, to get Mitchell's telephone number. While there, using the telephone, he was stabbed to death by Decino, a paroled inmate of the State insane asylum, who apparently suffered a sudden return of his insane delusions.

The court held that McCoy's death resulted from an accident "arising out of his employment." The decision was based primarily on a former case decided by the same court (Aetna Life Ins. Co. v. Industrial Commission, 81 Colo. 233, 254 Pac. 995), from which the following was quoted:

When one in the course of his employment is reasonably required to be at a particular place at a particular time and there meets with an accident, although one which any other person then and there present would have met with irrespective of his employment, that accident is one "arising out of" the employment of the person so injured.

The court, in its opinion, then said:

McCoy was "reasonably required to be at a particular place at a particular time", i. e., the Decino place, at the time he phoned. He there met with this accident, doubtless "one which any other person then and there present would have met with irrespective of his employment." Yet such an accident "is one arising out of his employment, thus bringing it clearly within the Aetna Life case, supra.

In holding that the death of McCoy was compensable under the workmen's compensation act, the court compared McCoy's death by violence with death of one walking under a falling timber or upon a spot where a lightning bolt fell, and intimated that there would be no difference in the result, and that in either case the death would be compensable.

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Injury to Employee Operating Sorghum Mill on Farm Held to be Noncompensable

IT HAS recently been held by the Supreme Court of Iowa that a farm laborer operating a sorghum mill on his employer's farm is engaged in "agricultural pursuits or operations immediately connected therewith", and that an injury sustained while operating the mill is not compensable under the Iowa Workmen's Compensation Act (Taverner v. Anderson, 261 NW. 610).

Anderson, a farmer operating his own farm in Page County, Iowa, employed Taverner at a wage of \$1 a day and board and lodging. His duties were to operate the sorghum mill and do general farm work. While operating this mill, his hand was caught in the rollers and he permanently lost the use of his right hand. He filed a claim for compensation under the workmen's compensation act, to which the employer made answer that all of the work done by Taverner was general farm work, and for that reason the workmen's compensation act did not apply.

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The applicable section of the Workmen's Compensation Act of Iowa (Code, 1931, sec. 1361) reads as follows:

SECTION 1361. To whom not applicable.—This chapter shall not apply to:

- 1. Any household or domestic servant.
- 2. Persons whose employment is of a casual nature.
- 3. Persons engaged in agriculture, insofar as injuries shall be incurred by employees while engaged in agricultural pursuits or any operations immediately connected therewith, whether on or off the premises of the employer.

The decision of the Industrial Commission denying an award was upheld by the district court of Page County, and Taverner appealed to the Iowa Supreme Court.

The question in this case was whether Taverner was "engaged in agricultural pursuits or operations immediately connected therewith" while operating the sorghum mill. The supreme court said in this connection:

Sorghum making would seem, clearly, to be classified as a farm pursuit, but, if not, how can it fail to classify as an "operation immediately connected therewith"? The legislature saw fit to exempt the farmer from the burdens of the workmen's compensation act. Sugarcane is a farm crop. It necessarily follows that the crop has to be harvested; that is, cut and removed from the land from which it has gained sustenance. Subsequent to that it would have to be fed to livestock on the farm or the juice taken therefrom and made into sorghum.

* * The claimant assisted in the cutting of the cane, hauling it to the machine, and while engaged in pressing the stalks he was unfortunately injured.

The court accordingly held that Taverner was engaged in an agricultural pursuit and did not come under the compensation law.

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Cooperative Credit Movement in 1934

THE number of societies in the cooperative credit movement and their membership continued to increase in 1934. The Bureau of Labor Statistics was unable to make a general survey of all credit societies such as was made for 1933. A number of States'require the credit unions to make annual reports to some State office, and from these the Bureau obtained combined reports covering all of the credit unions in the State. As the points upon which reports are required vary from State to State, complete information is not available for all societies. Some data were, however, obtained for 24 States, in which, at the end of 1933, nearly 80 percent of all the credit unions in the United States were found.

Membership data were reported for 20 States. In these States more than 425,000 persons were members of credit unions at the end of 1934. Massachusetts, always preeminent among the credit-union States, still led by a wide margin as regards membership, with 109,434 members, or nearly twice the membership of that of its nearest competitor, Illinois. It also was uncontested leader in point of capital, resources, and loans.

In 24 States for which reported were received the combined share capital amounted to \$26,285,497, reserves and guaranty fund to \$2,618,587, and total assets to \$40,212,112.

The reports covered 2,028 societies. Of these, 1,513 had served 195,126 borrowers. The total loans made during the year in 12 States by 1,269 societies aggregated \$29,580,684. Assuming that the average amount of loans granted per society—\$23,310—is representative of the societies in the 12 States for which data are not available, the total loans in all 24 States during 1934 was probably about \$40,000,000.

Dividends paid on share capital for the year by 1,096 societies amounted to more than \$500,000.

Credit unions are cooperative societies which make loans to their members only. They are designed to furnish a source of credit for small borrowers who generally have no banking connections. "Char-

¹ For a report of the findings of the 1933 survey, as regards the credit societies, see Monthly Labor Review, September 1934 (p. 551).

³ The Bureau also wishes to express its appreciation of the cooperation of the New York State Credit Union League and of Mr. C. R. Orchard, director of the Credit Union Section of the Federal Farm Credit Administration.

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acter loans", i. e., loans made without any security except the personal note of the borrower, may generally be made in amounts up to \$50. As a large proportion of the loans of credit unions are loans of this type, it is essential that the membership be drawn from a fairly stable group with some common interest, and such a requirement is often imposed by the State credit-union acts. Employment in a common establishment or membership in a labor, church, or fraternal organization fulfills the requirement of such a "common bond."

Loan funds are provided by the members themselves who subscribe for one or more shares (generally \$5 or \$10 each) in the organization. Regardless of the amount of share holdings, however, each member has but one vote. Additional funds may be obtained in some States, where the law allows such practice, from the receipt of savings deposits from the members. A few State laws even allow the acceptance of such deposits from nonmembers.

The membership and financial resources of the credit societies for which reports were received are shown in table 1. It is evident from this table that in certain States credit unions have had outstanding development. Thus the 4 States of Illinois, Massachusetts, New York, and Wisconsin together account for 46 percent of the total number of societies, 60 percent of the membership, and 61 percent of the total resources of all the 2,028 societies in the 24 States covered.

Table 1.-Membership and Resources of Credit Unions, 1934, by States

State	Number of credit unions reported for	Member- ship	Share capital	Reserves and guar- anty fund	Total resources
California	55	14, 818	\$905, 610	\$46, 733	\$1, 192, 02
Florida 1	9	1, 399	120, 983	8,772	143, 14
Georgia	62	9, 726	559, 757	61, 343	939, 85
Illinois	192	55, 539	2, 603, 745	142, 961	2, 875, 95
Indiana	109	(2)	786, 060	60, 674	932, 52
	132	16, 681	551, 825	28, 571	625, 78
IowaKansas	34	6, 928	237, 265	5, 361	257, 48
Louisiana	17	(2)	183, 792	14, 512	221, 73
Maryland	17	4, 295	131, 512	17, 583	155, 43
Massachusetts	304	109, 434	7, 107, 920	937, 820	12, 575, 66
Michigan	51	9, 688	652, 997	25, 754	836, 86
Minnesota	171	30, 281	1, 175, 140	64, 308	1, 776, 58
Missouri	138	29, 955	1, 426, 862	67, 394	1, 604, 21
Montana		300	10, 259	323	10, 96
Nebraska	113	11, 987	344, 815	15, 764	1, 027, 06
New Hampshire 1		(2)	100, 087	25, 872	1, 840, 50
New Jersey	35	9, 160	338, 822	17, 938	379, 2
New York		55, 117	5, 522, 615	746, 613	7, 289, 80
Rhode Island	13	10, 118	571, 999	85, 468	2, 007, 5
Tennessee		(2)	611, 933	42, 442	725, 9
Utah	10	1,471	86, 044	3, 528	103, 0
Virginia		10, 435	492, 613	121, 091	726, 4
West Virginia 1	12	2, 619	141, 020	11, 151	174, 0
Wisconsin	1 304	37, 146	1, 621, 822	66, 611	1, 790, 1
Total	2, 028	427, 097	26, 285, 497	2, 618, 587	40, 212, 1

Data are for fiscal year ending June 30, 1934.
 No data.
 As of Mar. 26, 1935.

Reserves and guaranty funds have been built up by the societies, amounting to \$2,618,587, or 6.5 percent of their combined resources.

Data are at hand showing the savings deposits for 9 States, totaling \$4,324,867 at the end of 1934, as follows:

Indiana	\$30, 631	Utah	\$2,942
Iowa	13, 481	Virginia	28, 363
Maryland	1, 446	West Virginia	1, 875
Massachusetts	3, 751, 232		
Minnesota	477, 322	Total	4, 324, 867
Tennessee	17, 575	N. COLLEGE STATE AND SERVICE	

More than \$29,000,000 was granted in loans by the societies of 12 States, of which 40 percent was lent by the credit unions of Massachusetts alone. More than 195,000 loans were made during the year in the 17 States for which reports were received on this point. For these loans the most general rate charged is 1 percent per month, calculated on the balance still due. From the net earnings, a certain proportion must be placed in a fund which is maintained to cover any losses from bad debts. The remainder is utilized to pay dividends on all fully paid shares outstanding at the end of the year; such dividends paid at the end of the 1934 operating period by the societies in 12 States totaled \$501,648.

The 1934 operations of the credit societies, by States, are shown in table 2.

Table 2.-Loans of Credit Unions During 1934, and Dividends Paid, by

	Number	Number	Los	ans	Dividends		
State	of credit unions reported for	of bor- rowers during year	Made during 1934	Outstanding at end of year	Amount	Rate (percent)	
California	55	1 8, 195	(2)	\$970, 640	(1)	(1)	
Florida 1	9	816		94, 333	\$7,855	47.0	
Georgia		(2)	(3)	704, 415	(2)	(2)	
Illinois		28, 907	\$3, 907, 116	2, 260, 200	103, 714	4 4. 0	
Indiana		(2)	(2)	585, 383	12,069	41.5	
Iowa		10, 174		490, 785	(2)	(3)	
Kansas		3, 334	374, 848	203, 329	6, 876	2.5-7.0	
Louisiana	17	(3)	(3)	202, 769	(2)	(3)	
Maryland	17	1 2, 080	187, 641	108, 388	4, 532	4 3.4	
Massachusetts		1 55, 417	11, 754, 139	8, 752, 279	272, 388	5. (
Michigan		4, 995	835, 199	635, 252	3, 626	3. 3	
Minnesota		14, 695	2, 166, 770	1, 341, 722	(3)	(2) (3)	
Missouri	138	(1)	(2)	1, 327, 211	(1)	(1)	
Montana	4	107	11,672	9, 767	§ 538	8.0	
Nebraska	113	(1)	(3)	390, 139	(1)	(1)	
New Hampshire 3	7		191,652	1, 238, 696	(2)	(1)	
New Jersey	35	5, 384	436, 815	192, 674	10, 298	3. 0-8.	
New York	140	1 31, 140	6 7, 771, 156	4, 851, 615	(2)	14.	
Rhode Island	13	1 3, 491	576, 877	1, 596, 556	(3)	7 3.	
Tennessee	69	(3)	(3)	635, 787		(1)	
Utah	10	1, 364	(2)	87, 806	2,002	42.	
Virginia		17,093	(3)	610, 660	13, 455	12.	
West Virginia		1 1,888	(1)	158, 366	(3)	(3)	
Wisconsin	* 304	16, 046	1, 366, 709	584, 809	64, 295	4. 0-10.	
Total	2, 028	195, 126	29, 580, 684	28, 033, 581	501, 648	1. 5-10.	

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¹ At end of year.
2 No data.
3 Data are for fiscal year ending June 30, 1934.

Average rate.

¹ society only.
137 societies.
Rate paid on 1933 business.
As of Mar. 26, 1935.

³ This is a requirement of the credit-union act in a number of States.

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Comparative data for the 4 years 1929, 1932, 1933, and 1934 are shown in table 3. The number of societies, total membership, and reserves have increased steadily from year to year. A decided set-back was shown in 1932 as compared with 1929 in average membership, average share capital per member, and total and average amount of loans granted. Although the average share capital per member continued to fall in 1933 and 1934, some recovery was made in average membership and total and average loans per society.

The data for 1929 and 1933 were obtained as part of a general survey of the cooperative movement in which every known society (except farmers' marketing organizations) was circularized. The information for 1932 and 1934 was obtained from State officials and covered only those States whose credit union act requires an annual report to a State office.

Table 3.—Comparative Development of Credit Unions, 1929 to 1934

Item	1929	1932	1933	1934
Number of societies reported for	838	1, 472	1,772	2, 02
Total	264, 908 320	301, 119 216	359, 646 215	427 , 09 23
Amount	\$24, 065, 407 92	\$21, 708, 328	\$22, 457, 861 62	\$26, 2 85, 49
Reserves and guaranty fund Loans during year:	2, 079, 450	2, 110, 815	2, 372, 711	2, 618, 58
Total	24, 548, 353 58, 310 350	16, 375, 952 16, 475 156	28, 217, 457 22, 811 138	29, 58 0, 68 23 , 31
Loans outstanding at end of year	30, 811, 582	24, 826, 291	26, 391, 683	28, 033, 5

Production of Butter and Meats by Consumers' Cooperatives

COOPERATIVE production by consumers has been extremely limited in the United States. The little done in the manufacturing field has been carried on by the wholesale societies. Thus, several of the wholesales dealing in petroleum products have their own oil compounding plants, one society operates a feed mill, and another its own bakery.

The first attempt at cooperative production by local consumers' societies in the knowledge of the Bureau of Labor Statistics was made in 1933, when a group of such societies in the Mesaba Range district of Minnesota formed the Mesaba Range Cooperative Federation. This society is operating a creamery and a sausage factory for its 15 owner societies.

The report of this society, as of December 31, 1934, showed paid-in share capital amounting to \$2,691, and total assets of \$13,985. Its

sales of butter and smoked meats during 1934 amounted to \$11,908. A net loss of \$274 was sustained on the year's operations.

The society employed 5 workers during the year, and the amount paid to them in wages was \$1,671. Working hours were 8 per day, 6 days a week.

Wisconsin Act Providing for the Teaching of Cooperation

THE Wisconsin Legislature early in August 1935 passed an amendment to the statutes, requiring the giving of courses in agricultural and consumers' cooperation throughout the public-school system of Wisconsin, from the State university downward. Hereafter no certificates are to be granted for the teaching of courses in economics, the social studies, or agriculture unless the applicant's course of training has included the subject of cooperation.

The text of the act is as follows:

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Section 1. Subsection (1) of section 40.22 of the statutes is amended to read: (40.22) (1) Reading, writing, spelling, English grammar and composition, geography, arithmetic, elements of agriculture and cooperative marketing, history and civil government of the United States and of Wisconsin, citizenship and such other branches as the board may determine shall be taught in every common school. All instruction shall be in the English language, except that the board may cause any foreign language to be taught to such pupils as desire it, not to exceed I hour each day.

Sec. 2. Four new subsections are added to section 40.22 of the statutes to read:

(40.22) (11) Cooperation.—Every high school and vocational school shall prescribe adequate and essential instruction in cooperative marketing and consumers cooperatives.

(12) Teacher training.—The governing boards of the university State teachers' colleges and county normal schools shall provide in their respective institutions adequate and essential instruction in cooperative marketing and consumers' cooperatives.

(13) Text material.—The State superintendent of public instruction and the dean of the college of agriculture at the State university shall cooperate in the preparation of outlines to be used by teachers in the courses offered under subsections (11) and (12) and they shall have power to request the assistance of any teacher or professor in any of the schools of the State in the preparation of such outlines. They may also make a recommended list of material now in pamphlets or books for guidance to teachers of these courses.

(14) Teachers' certificates.—In granting certificates for the teaching of the courses in economics, the social studies and agriculture, adequate instruction in cooperative marketing and consumers' cooperatives shall be required.

SEC. 3. This act shall take effect September 1, 1935.

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Strikes and Lockouts in August 1935

PRELIMINARY reports indicate a substantial increase in the number of strikes and lockouts in August 1935 as compared with July. Information based on news items from daily newspapers, labor papers, trade journals, and reports from all Government labor boards indicates that 185 strikes and lockouts began in August, as compared with 148 in July 1935 and 157 in August 1934.

An analysis of these August disputes, based on verified information, will appear in the December Labor Review.

The following table shows figures on the number of strikes and lockouts, the number of workers involved, and the number of man-days of idleness for each month, from January 1934 to August 1935. These figures exclude all strikes and lockouts which lasted less than 1 day and all those in which less than 6 workers were involved.

Strikes and Lockouts, January 1934 to August 1935

	N	ımber ol	strikes a	nd locko	uts		involved tes and									
	Begin	ning					outs	Man-days idle								
Month	Prior to month	In month	In prog- ress dur- ing month	Ended in month	In effect at end of month	Begin- ning in month	In prog- ress dur- ing month	during month								
1934	30															
January		91	121	78	43	41, 628	80,880	668, 301								
February	43	92	135	83	52	85, 727	110, 910	939, 580								
March	52	164	216	146	70	94, 117	127, 742	1, 424, 833								
April	70	211	281	179	102	158, 887	199, 580	2, 517, 749								
May	102	224	326	217	109	165, 815	249, 693	2, 226, 069								
June	109	156	265	135	130	41, 263	106, 852	1, 676, 265								
July									130	128	258	160	98	151, 432	219, 037	2, 020, 172
August	. 106 127	255	149	106	63, 447	122, 144	1, 735, 67									
September			233	148	85	413, 383	486, 798	4, 029, 15								
October	85	175	260	171	89	75, 688	102, 971	852, 78								
November		114	203	106	97	36, 102	98, 201	841, 570								
December	97	101	198	120	78	26, 119	73, 481	376, 297								
1935						Tana	1	1								
January	78	136	214	137	77	84, 450	94, 457	776, 48								
February	77	145	222	124	98	61, 929	97, 332	845, 63								
March	98	169	267	154	113	52, 123	95, 885	954, 24								
April		163	276	147	129	65, 509	120, 349	1, 197, 46								
May	129	157	286	158	128	101, 930	152, 124	1, 725, 38								
June	128	155	283	160	123	39, 862	122, 599	1, 341, 60								
July 1	123	148	271	132	139	65,000	130,000	1, 244, 00								
August 1	139	185	324	166	158	58,000	124,000	1, 026, 00								

¹ Preliminary.

Analysis of Strikes and Lockouts in June 1935

MORE than one-third (57) of the 155 strikes and lockouts which began in June were in the textile industries. Of these textile strikes and lockouts 30 were called in protest against wage decreases, often coupled with lengthening hours.

The industries manufacturing food and kindred products experienced 12 new strikes and lockouts in June, but none of the remaining

industrial groups experienced as many as 10.

The following tables analyze the strikes and lockouts beginning, in progress, and ending in June 1935, showing classifications by industries, States, number of workers involved, major issues involved, duration, methods of negotiating settlements, and results of settlements. These tables give an essentially complete picture of strikes and lockouts in June, although they cannot be considered as absolutely final. Occasionally, information is received after this report goes to press which might slightly alter the figures in the tables.

The Bureau attempts to get complete information on all strikes and lockouts in the United States in which as many as 6 workers are involved and which last 1 day or more. In getting leads on these disputes, information is obtained on strikes and lockouts from 437 daily newspapers, 82 labor papers, 88 trade journals, and 14 other journals. Information is also obtained from the United States Conciliation Service and Government labor boards. Questionnaires are sent to the parties directly involved in the dispute to get detailed and first-hand information. The figures compiled on strikes and lockouts, therefore, are based on definite reports and verified information.

The month of June saw the beginning of many small strikes and lockouts—small as measured by the number of workers involved and by the length of time they lasted. The average number of workers involved in the strikes and lockouts which began in June was 257 as compared with an average of 649 for May and 402 for April.

Table 1 gives a detailed classification by industry of the 155 strikes and lockouts which began in June, and the 283 which were in progress during June, together with industry figures on number of workers involved and man-days of idleness during the month.

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8, 301 9, 580 4, 833 7, 749 6, 069 6, 265 0, 172 5, 672 9, 155 2, 787 1, 570

6, 485 5, 639 4, 249 7, 469 5, 388 1, 668 4, 010 6, 000

6, 297

Table 1.—Strikes and Lockouts in June 1935, by Industry

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thirty annuals of hone equivies \$51 and to	Beginn Jur		In progre	une	Man-days
Industry	Number	Work- ers in- volved	Number	Work- ers in- volved	idle dur- ing June
All industries	155	39,862	283	122,599	1,341,669
iron and steel and their products, not including					7.00
machinery	3	304		1,454	6,667
Blast furnaces, steel works, and rolling mills Cast-iron pipe	1	165	1 1	75 165	225 1, 485
Cutlery (not including silver and plated cutlery) and edge tools		139	2	139	
Plumbers' supplies and fixtures		139	1	139	823 120
Steam and hot-water heating apparatus and steam fittings			1	55	
Other			3	1, 014	3, 464
ment		346		4,786	73,021
Agricultural implements			. 2	669	7, 485
Electrical machinery, apparatus, and supplies Foundry and machine-shop products	3 2	292 54	2 1	2, 396 54	42, 200 458
Radios and phonographs			. 2	767	4, 878
Fransportation equipment	1	59		4,813	18, 000 86, 071
Automobiles, bodies, and parts	1	50	4	925	8, 311
Nonferrous metals and their products	. 5	677		1,688	77, 760 18, 844
Aluminum manufactures	1 1 1	135	1	135 490	1, 620
Brass, bronze, and copper products	3	490	. 1	467	4, 670
Stamped and enameled ware		•••••	. 1	544	10, 880
OtherLumber and allied products	7	1,744	18	38,722	486,828
Furniture	4	992	9	4, 849	34, 420
Millwork and planing Sawmills	2	659	- 2	1, 156 32, 075	443, 213
Other	1	93	3	642	3, 24
Stone, clay, and glass products	3	714 539	5	3,344 3,099	18, 345
Brick, tile, and terra cotta	1	175	1	175	1, 05
Textiles and their products		16,385	82	24,829	
Fabrics:	7	3,942		8, 643	
Dyeing and finishing textiles	. 2	3, 942 760	4	968	3, 83
Hats, fur-lelt			1	378 1, 583	7,56
Silk and rayon goods	. 13	1,788	18	3, 365	46, 59
Woolen and worsted goodsOther	. 5	3, 238	6	3, 563 877	22, 88
Wearing apparel:		1			1
Clothing, men's	4 2	958 129		1, 088 962	
Clothing, women's	1	39	1	39	70
Millinery Shirts and collars	9		4 9	1, 825 1, 403	8,89
Other	. 3	135	3	135	79
Leather and its manufactures Boots and shoes	. 9	1,496 810	11	1,974	14,6
Leather	1	429	1	429	8
Other leather goods. Food and kindred products.	. 3	257	3	257 3,689	1,4
Baking	. 7	1, 991	10	2,480	22,4
Beverages			2 2	34	5
Canning and preserving Flour and grain mills	1		5 1	75	5 2
Slaughtering and meat packing	. 2	493	3 2	493	9,0
Other	2		. 1	215	4.3
Cigars			- 1	215	4,3
Paper and printing	_ 2	42		624	
Printing and publishing:				1	
Book and job		7	7 4	279 212	
Other	1	35			- 1
Other	4				
Other				50	1,

Table 1.—Strikes and Lockouts in June 1935, by Industry—Continued

	Beginn		In progr		Man-days
Industry	Number	Work- ers in- volved	Number	Work- ers in- volved	idle dur- ing June
Miscellaneous manufacturing	7	1,556	12	2,722	25, 133
Flectric light, power, and manufactured gas	1 3	974	5	1,794	15, 213
Furriers and fur factories	2	132	2	132	1,770
Other	2	450	5	796	8, 150
Extraction of minerals	7	4,926	13	17,760	120,350
Coal mining.	6	4, 776	10	14, 045	51,090
Metalliferous mining	1	150	2	3, 150	61, 350
Quarrying and nonmetallic mining			1	565	7,910
Transportation and communication	6	4.154	18	6,907	51,303
Water transportation	3	583	7	1,845	24, 447
Motor transportation	3	3, 571	10	4, 993	25, 131 1, 725
Air transportation	8	905	17	1,896	30, 439
Trade		731	5	874	10, 002
	1	174	12	1, 022	20, 437
Retail		1.574	14	2,543	52,003
Domestic and personal service	3	57	8		
Hotels, restaurants, and boarding houses	1 0	1,500	1	236	2, 584
Personal service, barbers, beauty parlors		1,000	1 1	1,500	36,000
Laundries			1 :	790	13, 385
Dyeing, cleaning, and pressing		150	2	17	34
Professional service	1 1			230	2,100
Recreation and amusement	- 1	150	1 1	150	300
Semiprofessional, attendants, and helpers		********	.1	80	1,800
Building and construction		1,120		1,847	15,011
Buildings, exclusive of P. W. A		707	7	793	6, 172
All other construction (bridges, docks, etc., and					
P.W. A buildings)		413	9	1,054	8, 839
Agriculture, etc	- 1	25	3	113	0.40
Agriculture		25	2	105	
Other			. 1	8	240
Relief work		91	5	1,831	
Other nonmanufacturing industries	- 1	213	1	213	639

Of the 155 strikes and lockouts which began in June, more than half were in 5 States. Pennsylvania, with 32, experienced more new disputes than any other State. New Jersey and New York each experienced 15 new strikes and lockouts during the month; Ohio had 14 and Massachusetts 12.

As shown in table 2, there were 9 strikes or lockouts in progress during June which extended into two or more States. The largest of these were (1) the strike of 2,500 clay workers in Ohio and western Pennsylvania, which began in April and was settled June 9; (2) the general lumber strike in the Pacific Northwest, which began in May and was still in progress at the end of June; (3) the strike of 3,000 zinc and lead miners and smeltermen in Oklahoma, Missouri, and Kansas, which began in May and gradually came to a close in the latter part of June, the men going back to work in some cases and vacancies being filled with new employees in others; and (4) the strike of 3,000 employees of the Uxbridge Worsted Co., Inc., in Connecticut, Massachusetts, and Rhode Island, which began June 24 and was still in progress at the end of the month.

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6,667 225 1,485

> 550 3, 464 73, 021 7, 485

42, 200 458 4, 878 18, 000 86, 071 8, 311 77, 760 18, 844

1, 570 4, 670 10, 880 104 486, 828 34, 410 5, 951 443, 213

443, 213 3, 244 19, 955 18, 345 1, 050 272, 218 106, 070 3, 836 7, 560

18, 911 46, 595 22, 882 10, 643 5, 500 16, 777 702 23, 055 8, 892

225 9, 080 1, 892 4, 300 4, 300 12, 367 2, 450 5, 580 4, 267 70

4, 267 70 1, 000 1, 000 3, 321 3, 321

Table 2.—Strikes and Lockouts in June 1935, by States

100 (100)	Beginnin	g in June	In progress	during June	Mon :
State	Number	Workers involved	Number	Workers involved	Man-day idle duri June
All States	155	39, 862	283	122, 599	1, 341, (
Alabama	6	2, 829	11	3, 295	00.0
Arizona	i	150	i	150	26, 7
Arkansas	il	89	i		1,
California	1			89	
Connecticut	3	1, 292	7	1, 795	28,
District of Columbia.		588	5	1, 795	11,
Peorgia.	1	3, 500	1	3, 500	3,
			4	930	3,
daho	1	11	1	_ 11	
llinois	9	1, 126	21	3, 484	41,
ndiana	2	1, 390	6	2, 051	22,
owa	3	579	3	579	3,
Centucky	2	464	2	464	3,
ouisiana	1	213	1	213	0,
faine	i	175	i	175	1.
Aassachusetts	12	3, 053	16	6, 968	
Aichigan	1	25	6	1, 017	128,
Ainnesota.	il	40	1	-,	10,
Aissouri	1	221		40	
	*	221	8	1, 055	18,
			1	60	1,
New Hampshire		**********	1	325	6,
lew Jersey	15	1, 680	27	7, 238	103,
ew York	15	3, 032	38	6, 293	70,
Torth Carolina	3	1, 439	4	1, 479	5,
hio	14	3, 784	25	13, 164	125,
klahoma	1	452	1	452	8.
regon	3	151	3	151	-
ennsylvania	32	7, 333	48	17, 716	83.
hode Island	4	526	6	619	11.
outh Carolina	1	736	2	1, 576	18.
ennessee	5	573	7	1, 115	13.
exas	2	175	5	805	13,
irginia.	ī	105	1	105	10,
Vashington		100	4	623	3,
Vest Virginia	1	65	2	630	8.
Visconsin.	3	618		000	
	- 1		3	618	7,
nterstate	2	3, 448	9	42, 019	552,

None of the strikes and lockouts beginning in June involved as many as 5,000 workers. Nearly 90 percent of them involved less than 500 workers each.

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The strikes and lockouts, in each industrial group, which began in June are classified in table 3 by number of workers involved. Some of the larger strikes beginning in the month were (1) the 1-day strike of 3,500 taxicab drivers in Washington, D. C., on June 10; (2) the strike of the Uxbridge Worsted Co. employees referred to above; and (3) the strike of 1,750 bakery workers in Cleveland, Ohio, which began on June 22 and was still in effect at the end of the month.

Table 3.—Strikes and Lockouts Beginning in June 1935, Classified by Number of Workers Involved

and algorithms of the land	ediq.						in which	
Industrial group	Total	6 and under 20	20 and under 100	100 and under 500	500 and under 1,000	1,000 and under 5,000	and	10,000 and over
All industries	155	20	58	59	8	10		
Manufacturing								
Iron and steel and their products, not including machinery. Machinery, not including transportation equip-	3		2	1	*****			•••
ment	5	1	3	1				
Nonferrous metals and their products	5		1 3	2				******
Lumber and allied products.	7	1	1	3	2			
Stone, clay, and glass products	4		1	3				
Textiles and their products	57	5	21	23	3	5	******	
Food and kindred products		3	4	4		1	******	
Paper and printing		1	i	4				*****
Rubber products	2			2				
Miscellaneous manufactures	7	1	3	2	1			
Nonmanufacturing								
Extraction of minerals	7			5		2		
Pransportation and communication	6	1	3	1		1		
Trade	8	2	4	1	1			
Domestic and personal service	5	2	2			1		
Professional service Building and construction		1	4	1 3	1			
Agriculture, etc.		1	1	3	1	*****		
Relief work	3	1	2				******	
Other nonmanufacturing industries	1		-	1			*****	

There was a noticeable increase in the number of strikes and lockouts over the issues of wages and hours. These were the major issues in 50.3 percent of the strikes and lockouts which began in June, as compared with 43.8 percent in May and 40.8 percent in April.

For the first time since the beginning of the N. R. A. there were more strikes in protest against wage decreases than for wage increases. Of the 155 strikes and lockouts which began in June, protests of workers against wage decreases caused 18, or 11.6 percent. Only 8.5 percent of the disputes in May and 7 percent of those in April were over this issue. Decreasing wages and at the same time increasing hours caused 21, or 13.6 percent, of the strikes and lockouts in June, as compared with 2 percent in May and 0.6 percent in April. Fifteen of the 18 strikes and lockouts over the "wage decrease" issue were in the textile industries, as were also 15 of the 21 cases in which the major issues were a wage decrease and an hour increase.

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26, 741 1, 350 623 28, 700 11, 116 3, 500 3, 210 41, 852

22, 620 3, 716 3, 970 1, 050 128, 352 10, 269 720 18, 388 1, 380 103, 433 70, 981 5, 175 125, 588 8, 588 8, 588 8, 589

18, 272 13, 055 13, 275 945 3, 491 8, 560 7, 898 552, 600

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bove; which The 155 strikes and lockouts beginning in June are classified in table 4 according to the major issues involved.

Table 4.—Major Issues Involved in Strikes and Lockouts Beginning in June 1935

	Strikes an	d lockouts	Workers	involved
Major issues	Number	Percent of total	Number	Percent o
All issues	155	100.0	39, 862	100.
Wages and hours	78	50.3	14,953	37.
Wage increase	20	13.0	3, 819	9.
Wage decrease	18	11.6	3, 819 2, 574	6
Wage increase, hour decrease		1.9	315	
Wage decrease, hour increase	21	13.6	2,842	7
Wages and other causes	9	5.8	4, 997	12
Hour increase.		3.2	246	1 4
Hour decrease	i	.6	23	
Hours and other causes.	i	. 6	137	
Organization	59	38,1	12,872	32
Recognition	4	2.6	1, 125	
Recognition and wages	7	4.5	1, 120	
Recognition, wages, and hours	9	5.8	1, 203	
Recognition and other causes.	4	2.6	1,002	
Closed shop	12	7.7	5, 776	1
Violation of agreement.	3	1.9	186	
Discrimination		13.0	2, 460	
Miscellaneous	18	11.6	12,637	
Sympathy		.6	1, 445	3
Liniadiotion	3	1.9	209	
Jurisdiction	14	9.1	10. 383	2

The duration of the strikes and lockouts, in each industrial group, which ended in June, is indicated in table 5.

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Approximately half of the 160 strikes and lockouts which ended in June lasted less than one-half month. Eleven disputes which had been in progress for 3 months or more were terminated during the month. The most important of these were (1) the strike of 275 truck drivers in Pittsburgh, Pa., which began in December 1934, (2) the strike of more than 6,300 coal miners in Pennsylvania which began in February, and (3) the strike of 900 seamen, employed on oil tankers along the Pacific coast, which began on March 9.

Table 5.—Duration of Strikes and Lockouts Ending in June 1935

		Number	r of strike	as and lo	ckouts w	ith dura	tion of—
Industrial group	Total	Less than 1 week	1 week and less than 1/2 month	month and less than i month	1 and less than 2 months	2 and less than 3 months	a months or more
All industries	160	51	30	31	21	16	11
Manufacturing							
Iron and steel and their products, not including machinery	5	1		1	1	2	******
mant	8	******	1	2	8	2	
Transportation equipment Nonferrous metals and their products	3	1 2	******	*******	1	1	******
Lumber and allied products	8	i	3	3	i		
Stone, clay and glass products	4		1	1		2	
Tartiles and their products	40	19	8	7	1	2 3	2
Leather and its manufactures	. 9	4	1	3	1		
Food and kindred products	13	5	3	3	2		******
Paper and printing	4	2			1	1	
Nonmanufacturing							
Extraction of minerals	11	4	3	1	2		. 1
Transportation and communication			3	1	1	2	1
Trade	12	1	3	4 2	2 2	1	1
Domestic and personal service	9	1	1	2	2	1	
Building and construction	7		2	1	1	1	*****
Agriculture, etc.	2	li		i			
Relief work	. 5	3	1				
Other nonmanufacturing industries		1					

Of the 160 strikes and lockouts which ended in June, all but 37 were terminated, as indicated in table 6, by some kind of formal Settlements for 6.4 percent of the workers were obtained by direct negotiations with their employers. Negotiations for 34.6 percent of the workers were carried on directly by their union representatives, while 24.9 percent of the workers were assisted by Government conciliators and labor boards. In most of these cases, Government agents negotiated through union representatives and employers.

In the 37 cases which were terminated without formal settlements, the employees simply went back to work and gave up their struggle without a formal settlement, the employers hired new workers to fill the vacancies of the strikers, or the employers discontinued operations in the particular locality, either going out of business or moving operations to another city.

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Table 6.—Methods of Negotiating Toward Settlement of Strikes and Lockouts Ending in June 1935

	Strikes an	d lockouts	Workers	involved
Negotiations toward settlements carried on by—	Number	Percent of total	Number	Percent of total
Total	160	100.0	57, 139	100.
Employers and workers directly. Employers and representatives of organized workers directly. Government conciliators or labor boards. Private conciliators or arbitrators. Terminated without formal settlement.	52 49 2 37	12. 5 32. 5 30. 6 1. 3 23. 1	3, 647 19, 761 14, 233 130 19, 368	6, 34, 24,

Settlements favorable to the workers were obtained in 68 of the 160 strikes and lockouts which ended in June; settlements unfavorable to the workers were obtained in 58, and compromise settlements in 28.

As indicated in table 7, the 68 strikes and lockouts which were settled favorably to the workers were small, on the average, involving only 22.8 percent of the total number of workers. Generally speaking, the workers won a large number of small strikes, lost a significant number of medium-sized strikes, and obtained compromise settlements on the largest strikes.

Table 7.—Results of Strikes and Lockouts Ending in June 1935

Strikes an	d lockouts	Workers	involved
Number	Percent of total	Number	Percent of total
160	100. 0	57, 139	100.0
68 58 28 3 2	42.4 36.3 17.5 1.9 1.3	13, 007 19, 317 16, 786 6, 414 1, 585	22.8 33.7 29.4 11.2 2.8
	Number 160	160 100.0 68 42.4 58 36.3 28 17.5 3 1.9 2 1.3	Number Percent of total Number 160 100.0 57, 139 68 42.4 13, 007 58 36.3 19, 317 28 17.5 16, 786 3 1.9 6, 414 2 1.3 1, 585

A more detailed analysis of the results of the 160 strikes and lockouts which ended in June 1935, showing the relation of results to the major issues involved, is shown in table 8.

Of the 64 wage and hour disputes which ended during the month, the workers won 29, lost 21, and obtained compromise settlements in 14. Of the 75 disputes over organization matters, they won 31, lost 31, and compromised 12. In one case the results were not reported.

Table 8.—Results of Strikes and Lockouts Ending in June 1935, in Relation to Major Issues Involved

		Numb	er of strike	s and lo	ekouts, the	e results	of
Major issue	Total	Favor- able to workers	Unfav- orable to workers	Com- pro- mises	Juris- diction or rival union settle- ments	Un- deter- mined	Not re- ported
All issues	160	68	58	28	3	2	1
Wages and hours	64	29	21	14			
Wage increase	20	7	9	4			
Wage decrease	14	6	6	2			
Wage increase, hour decrease	3	2	1				
Wage decrease, hour increase	14	8	4	2			
Wages and other causes	7	2	1	4			
Hour increase	4	2		2			
Hour decrease	1	1					
Hours and other causes	1	1					
Organization	75	31	31	12			1
Recognition	12	2	9	1			
Recognition and wages	19	11	3	5			
Recognition, wages, and hours	8	2	3	3			
Recognition and other causes	1	-	1				
Closed shop	9	4	1 4	1			
Violation of agreement	6	3	1	9			
	20	9	10	-			*****
Discrimination		9	10				
Miscellaneous	21	8	6	2	3	2	
Sympathy	5	2	2			1	
Different unions competing for control.	1				1		
Jurisdiction	2				2	*****	
Other	13	6	4	2		. 1	

Conciliation Work of the Department of Labor in August 1935

By Hugh L. Kerwin, Director of Conciliation

THE Secretary of Labor, through the Conciliation Service, exercised her good offices in connection with 115 disputes during August 1935. These disputes affected a known total of 53,928 employees. The table following shows the name and location of the establishment or industry in which the dispute occurred, the nature of the dispute (whether strike or lockout, or controversy not having reached the strike or lockout stage), the craft or trade concerned, the cause of the dispute, its present status, the terms of settlement, the date of beginning and ending, and the number of workers directly and indirectly involved.

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ockouts

Percent of total

6.4

34.6 24.9 .2 33.9

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ificant settle-

volved

Percent of total

22.8 33.7 29.4 11.2 2.8

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month, ements yon 31, ere not

Labor Disputes Handled by Conciliation Service During the Month of August 1935

Company or industry and	Nature of	Craftsmen_concerned	Cause of dispute	Present status and terms of	Dur	Duration	Wo	Workers
		Equil E 16 Ones		settlement	Beginning	Ending	Direct- Indi-	Indi-
Malleable Steel Range Co., South Bend, Ind. Greyhound Bus Co., Pitte.	Controversy.		Asked collective bargaining	Adjusted. Collective bargaining granted.	1935 Aug. 2	1935 Aug. 6	101	11
burgh, Pa.		Costes anvers	s men discharged		Aug. 1		ε	1
Smith-Roland Chemical Co.		Cheminal morked		actory	Aug. 2	Aug. 7	280	1
	do	Furniture workers	lective bargaining.	Adjusted. New agreement with increase of 2 cents per hour.		Aug. 24	\$	
Celina, Ohio.			hour day, and union recogni-	Pending	July 21		900	1
Iowa Manufacturing Co., Cedar Rapids, Iowa.	op	Machinists	Organization difficulties	Adjusted. Settled satisfactorily	Aug. 2	Sept. 2	2	
deading, Pa.	op	Hoslery workers.	Objection to foreman	Adjusted. Foreman discharged;	Feb. 21	Aug. 1	150	i
Woodward Lumber Co., Cot-	Controversy.	Sawmill and timber	Collective bargaining refused	Adjusted. Batisfactory agreement.	Aug. 3	Aug. 11	98	
H. Chambers & Son, Inc.,	Controversy.	Lumber workers	nition.	op.	Aug. 1		125	
Bohemia Lumber Co., Cottage	do	Timber and sawmill	ф	do	do		8	7
El Paso Electric Co., El Paso, Tex.	do	Power industry work-	Renewal of agreement; Intimi-	Adjusted. Compromise agree-	Aug. 5	Aug. 15	146	362
I. Stephanson Lumber Co., Wells, Mich.	Strike	Lumber workers	Wage increase and working con-		Aug. 2	Aug. 16	300	
Dam construction, Fort Peck, Mont.	Controversy.	Dam workers	Wage scale of district not being	Pending	Aug. 1		6,000	90
Post-office building, New York City.	Strike	Building trades	Nonunion workers employed	do	Aug. 6		8	
	- op	Plumbers and steam- fitters.	Transportation and expenses of	ор-	-do		8	
Carpenters, State of California	Threatened strike.	Carpenters	Wages and working conditions	Adjusted. Agreed to arbitrate	do	Aug. 24	4,000	
Highway construction, Bloom- ington, Ill.	Controversy.	Road laborers	Wage rates	Unclassified. Referred to State	Aug. 7	Aug. 11	3	
Tin Plate Litho Co., Brooklyn,	Strike	Metal-cap makers	Asked wage increase; collective	agencies.	July 21		100	

Loneshoremen. Panama City. | Threatened | Loneshoremen | Working conditions | Adjusted. Action postponed until | July 15 | Aug. 7 | 125 |

								IN	DUB	TR	AL	DI	BPU'	res	3						1(
	8 8				100			•	8	20	12		-			904	200	8		211	9 9
126	200	200	ε	400	240	2	1	64	2,500	88	99	ε	10	2, 500	740	22	==	20	25	239	2
-	0	-	-	13	11	12			SI	8	91	1	16	15	8	20	:	21	8	-	28
Aug.	Aug.	op		Yng.	Aug. 17	Aug. 12		Aug.	Aug.	Aug. 20	Aug.		Aug.	Aug. 15	Aug.	Aug.	do	Aug.	Aug.		Aug.
15	10	. 10		00	. 1	91 .	•	23		00	٥.			28	-	9	-	13	do	60	15
July	July	Apr.	Aug.	Aug.	July	Apr.	Aug.	July	Aug.	Aug.	Aug.	- op	Aug.	July	Aug.	Aug.	do	Aug.	op	Aug.	July
Adjusted. Action postponed until expiration of contracts at other	Unable to adjust. Plant moved	Under Settled by parties	Pending.	Unable to adjust. Bargaining re-	Adjusted. Allowed 50, 57, and 60 cents per hour in agreement	Adjusted. Closed shop allowed	Pending.	Adjusted. Allowed back pay	Adjusted. Increase of \$1.50 per ton; may return to work if busi-	Adjusted. Company agreed to	Adjusted. Returned; 45-hour week which permitted greater	earnings.	Adjusted. Increased from 6 to 9 cents per hour for 5 workers.	Unable to adjust. Mediation re-	Adjusted. Negotiations for wage	Vinclassified. Regional board will	take up situation.	Unable to adjust		and pay for overtime.	Unable to adjust
Working conditions	Proposed wage cuts; bargaining	openar.	(I)	Discharges for union affiliation	Wages and hours.	Asked increase of \$2.50 per week	Working conditions	Dispute relative to back pay	Wages and working conditions	Discharge of 2 workers for union	Longer hours which reduced pay 121% percent.	Alleged discharges for union	Wages and closed shop	Objection to proposed company	union. Proposed wage cuts.	Discrimination for union affilia-	Lay-off of senior employees	Asked for back pay alleged to be	Union recognition	Discharges for union activity	Jurisdiction
Longshoremen	Leather-coat makers	do	Packing and canning	Furniture workers	Cereal workers	Jewelry workers	Bottling workers	Scrap-metal handlers	Tiff miners	Ice and ice-cream mak-	Tool makers	Rice-mill workers	Machinists	Boot and shoe workers	Operators	Die makers	Metal workers.	Garment workers	Optical workers	Auto-trailer makers	Iron and electrical workers.
Threatened strike.	Strike	do	Controversy.	Strike	Threatened strike.	Strike	F	Controversy.	Strike	Controversy.	Strike	Controversy.	Strike	Controversy.	H	Controversy.	qo	Strike	do	Threstened	Strike. Controversy
Longshoremen, Panama City, Fla.	American Sheep Lined Cost	United Sheep Lined Coat Co.,	Vincennes Packing Corporation.	Smith Cabinet Co., Salem, Ind	Coreal mills, Buffalo, N. Y	Goldman's Jewelry Store,	Coca Cola Co., Tuscaloosa, Ala	Pielet Scrap Iron & Metal Co.,	National Lead Co., Potosi, Mo	Steffins Ice & Ice Cream Co.,	Eastern Tool & Mig. Co., Bloomfield, N. J.	Rice Growers Cooperative As-	Walker Motor Co., Newport, Ky.	Godman Shoe Co., Lancaster,	Motion-picture theaters, New	Precision Die Cast Co., Fay-	Rollway Bearing Co., Syracuse,	N. Y. Lipson Dress Factory, Oglesby,	Uhleman Optical Co., Detroit,	Freuhauf Trailer Co., Detroit,	E. B. Craney Radio Tower, Butte, Mont.

bargaining.

Not yet reported.

Labor Disputes Handled by Conciliation Service During the Month of August 1935-Continued

Company or industry and	Natue of	Orafteman concerna	Course of Money	Present status and terms of	Dur	Duration	Workers	Workers
location	controversy		anden noene	settlement	Beginning	Ending	Direct	Indi- rectly
Krenn & Dato, contractors on road project, Chicago, III.	1	Road builders.	Asked employment of union men only.	Adjusted. All returned	1935 Aug. 13	1935 Aug. 15	100	400
Meat packers, San Diego, Calif. Japanese growers, San Diego,	Threstened strike.	Packing-house workers. Mexican field laborers	Working conditions	Pending. Adjusted. Signed agreement, pro-	Aug. 12	Aug. 15	3,000	2,000
Canic. Farley & Loetscher Manufac-	Strike	Mill workers	Alleged discrimination	a .	Aug. 5	Aug. 16	650	20
Carr, Ryder & Adams Co., Du-	op.	op*****	Wages and union recognition	turned without discrimination. Adjusted. Agreed on memoran-	do	Aug. 23	450	9
Mother Lode Mines, Jackson,	do	Gold miners	Wages, hours, and recognition	dum of terms.	Aug. 2	8 0 0 0 0 0	650	:
Jewelry workers, Philadelphia,	Controversy.	Jewelry workers	Wages and working conditions	ор-	Aug. 6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	300	
Jester Gardens, Philadelphia,	Strike	Waiters	dodo		Aug. 9		86	
Wide Awake Shirt Co., Read-	ор	Shirt makers	Wage cut of 30 percent	Adjusted. Wages restored with 10	Aug. 6	Aug. 24	200	
Ashland Shirt Co., Ashland, Pa.	do	Shirt workers	Wage cuts.	Adjusted. Accepted wage cut and	Aug. 7	Aug. 9	200	-
V. P. Brown Sons Lumber Co.,	ор	Lumber workers	Wages, hours, and closed shop	Adjusted. Accepted cut of 6 cents	Aug. 15	Aug. 21	225	12
Independent food stores, Butte, Mont.	Controversy.	Clerks	Hours of labor	Adjusted. Agreed on 8 o'clock closing hour; closed Sundays and	Aug. 14	Aug. 22	12	
Colorado Milling & Elevator Co., Denver, Colo.	do	Elevator operators	Discharges for union activity	Adjusted. Part reinstated. National Labor Relations Board	Aug. 12	Aug. 25	800	
Sawyer Watch Strap Co.,	Strike	Watch-strap makers	Asked \$15 per week and union	may complete settlement.	June 14		38	
Pfizer Chemical Co., New York and Brooklyn, N. Y.	Controversy.	Chemical workers	Discrimination and discharges for union activity.	Adjusted. Agreed to bargain collectively when Wagner bill be-	June 1	Aug. 15	200	
Wheeland Studios, Inc., New	Threatened	Photograph finishers	Discharges for union activity	Adjusted. Reemployed all but	do	Aug. 14	06	360
Rayovac Co., Madison, Wis Michigan-Indiana Transporta- tion Co., Flint, Mich., to Indianapolis, Ind.	Controversy.	(i) Drivers	Making of agreement. Wages and working conditions.	Pending Adjusted. All returned, with closed-shop agreement.	Aug. 17 Aug. 11	Sept. 4	01	

Wages cut 5 to 20 percent; hours | Adjusted. Wages adjusted, 36- | Aug. 13 | Aug. 30 |

Faultiess Pants Co., Buffalo, |do | Pants makers....

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								INI	DUST	RIA	LI	OISP	UTE	s						10
20	100					10		25	9	12		17		1	1 9 8 8	8 8	£	06		98
23	87	10	850	15	4, 500	240	ε	360	2	88	135	€.	506	ε	250	ε	ε	80	10	420
Aug. 30	Aug. 26	Aug. 22	Aug. 28	do		Aug. 23	8 6 8 8 8	Aug. 21	Aug. 20	Sept. 10	Aug. 23	Aug. 17	Aug. 30		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Aug. 25	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Aug. 28	Sept. 2
-	1	28	15	17	7	17 /	25	=	13	98	10	13	17 1	1	19	20	<u> </u>	1	-	21 8
Aug. 13	do.	Aug.	Aug.	Aug.	June	Aug.	July	Aug.	Aug.	May	Aug.	Aug.	Aug.	do.	Aug.	Aug.	do	-op	-op	Aug.
Adjusted. Wages adjusted, 36- hour week, and closed shop.	Unclassified, Reinstated those discharged; settled before com-	missioner arrived. Unable to adjust.	Adjusted. Satisfactory adjust-		man Co. workers returned.	Adjusted. Satisfactory agreement.	Pending	Adjusted. Will follow code, as previous to termination of Na-	tional Recovery Administration. Adjusted. Recognition, and 8- hour day allowed.	Adjusted. Secured better under- standing, expect final settlement	or unerences. Unable to adjust	Pending Unclassified. Remained at work	Adjusted. Recognition; permanent arbitration agency estab-	lished. Pending.			Unable to adjust	Pending	Adjusted. Jurisdiction settled	Adjusted. Increase of 2 cents per hour and formation of perma- nent employees' adjustment
Wages cut 5 to 20 percent; hours increased from 36 to 40 per	Wages and discharges	Discharges for union activity	Longer hours required	Sympathy with Uhleman Opti-	Cal Co. Workers. Company refused to enter con-	Wage cuts and longer hours	Working conditions	Making agreement	Wages and discharges; asked 40- hour week and union recogni-	Asked 10 percent increase; dis- charges followed.	Wage cuts.	Working conditionsdo	Asked union recognition and reinstatement of discharged	workers. Wage cuts, longer hours, and	reduced force. Wage cuts and longer hours	Working conditions	Low wages, long hours, and	union recognition remsed. Asked increase, union recogni-	tion, and collective bargaining. Jurisdiction of tile setting	Union recognition refused by company.
Pants makers	Stone workers	Foundry workers	Cable makers	Optical workers	Tobacco workers	Candy makers	Stove mounters	Pipe workers	Veneer and plywood workers.	Metal workers	Greenhouse workers	Engineers and laborers.	makers. Street-car workers	Metal trades	Dress workers	Ink makers	Nursery workers	Machinists	Tile roofers and interior	tile setters. Smelter workers
Buffalo, do	Controversy.	do	do	Strike	Controversy.	Strike	Controversy.	- do	Strike	do	Controversy.	Strike	Strike	do	do	do	do	Threatened	strike.	Strike
Faultless Pants Co., Buffalo, N. Y.	Breen Stone & Marble Co., Kasota, Minn.		General Cable Co., Rome, N. Y.	Wolverine Optical Co., Detroit,	Liggett & Meyers Tobacco Co.,	Crystal Pure Candy Co., Chi-	Southern Cooperative Stove	U. S. Pipe Co., North Birming- ham, Ala.	Jamestown Veneer & Plywood Co., Jamestown, N. Y.	Jamestown Metal Products Co., Jamestown, N. Y.	Griswold Greenhouse, Ashta-	Sewer construction, Peoria, III	Northern Indiana Railway, Inc., and South Bend Motor	Bus Co., South Bend, Ind. Roland & Harvey, Inc., Phila-	delphia, Pa. Shamokin Dress Co., Shamokin,	Johnson Ink Co., Philadelphia,	Andora Nurseries, Philadelphia,	Philadelphia & Reading Coal &	U. S. Court House, St. Louis,	American Smelting and Refin- ing Co., Selby, Calif.

10 (1)

Rayovae Co., Madison, Wis... Controversy. (i) Pending Transporta- Strike... Drivers. Wages and working conditions. Adjusted. All returned, with Aug. 11 Sept. 4 Indianapolis, Ind.

Not yet reported.

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Adjusted. Recognition and senlority rights. Memorandum of

Maddox Table Co., Jamestown, | Strike | Table makers | Hours of labor

Labor Disputes Handled by Conciliation Service During the Month of August 1935-Continued

Workers	rectly	206	0	23 277		8 TT	18		22		900	88	9		-	
EA	Direct-		350	84		_	125	ε	83	8,000	95	ε .	8	ε	700	700
Duration	Ending	1935 Sept. 5	Aug. 25		Sept. 2	do					Aug. 7	Aug. 20	Sept. 6			Aug. 28
Dun	Beginning	1935 Aug. 19	Aug. 17	Aug. 19	Aug. 20	do	Aug. 23	Aug. 22	op	do	June 6	Aug. 26 Aug. 24	Aug. 15	Aug. 21	Aug. 15	Aug. 13
Present status and terms of	settlement	Adjusted. Satisfactory agreement.	Adjusted. Union agreement signed, fixing wages and hours.	Pending	Unable to adjust		Pending	do	dodb	-do	7 5	Pending. Satisfactory settlement.	do	Pending	do	from 4 to 5 days per week.
Carres of discorts	anden is acres	Union members discharged	Proposed wage cuts and longer hours.	Asked closed-shop contract	Discharges for union affiliation	do	Discharged foreman	Refused union recognition and	Wages. Collective bargaining refused	Wages	Violation of arbitration agree- ment.	Wages and conditions	ercent	Discharged 5 workers for union	d longer hours	Working conditions
Crafteman concerned		Carpenters	Embroidery workers, tuckers, and hem- mers.	Soft-drink workers	Fur workers	Tramway workers	Printers	do	Employees	Fruit and vegetable	Cabinetmakers	Jewelry workers	Lors.	Sugar workers	Garment workers	Match makers
Nature of	controversy	Controversy.	Threatened strike.	Strike	Controversy.	do	Strike	Controversy.	Strike. Threatened	do	Strike	Controversy.	Threatened	Controversy.	Strike	Controversy.
Company or industry and	location	West Virginia Pulp & Paper	Garment workers, Philadelphia, Pa.	James Vernor Co. Brewery,	Daniels & Fisher Stores Co.,	Tramway Co., Denver,	Novelty Advertising Co.,	Edward E. Cox Printer, Inc.,	Buchsbaum Co., Chicago, III Rude Motor Co., Cedar Rapids,		Webber Shocase Co. and 75 other firms, Los Angeles, Calif.	Jewelry workers, Buffalo, N. Y. Rodgers Theaters, Carbondale,	Backman's Pretzel Bakery,	Holly Sugar Co., Tracy, Calif	Hercules Clothing Co., Colum-	Ohio Match Co., Wadsworth, Ohio.

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_	Sept.		Aug.	-	Sept.	:		Aug.			Sept.	Sept.			Aug.	Aug.	
	Aug. 26	Aug. 27		g. 28	E. 26	8. 29	do	g. 16	23	g. 30	do	do.	8. 21	g. 22	y 18	y 15	
		- Au	Ang.	_	Aug.	- Aug.	-	Yng.	- Aug.	- Aug.			- Aug.	- Aug.	July	July	
forty rights. Memorandum of	4	Pending	Adjusted. Satisfactory settlement.		Adjusted. Accepted company's terms owing to business con-	Pending.	op	Adjusted. Allowed 50 cents per	efficiency expert. All returned.	do.	Adjusted. Increase of 15 percent	and union recognition. Adjusted. Satisfactory settlement.	Pending	-ф-	Adjusted. Reestablished 40-bour week.	Adjusted. Satisfactory signed agreement.	
	Management refused to meet	Working conditions.		*	Hours lengthened from 7 to 8 per day, without extra pay.	Working conditions	op	Asked minimum of 50 cents per hour: objection to afficiency	expert. Discharges for union affiliation.	Working conditions	Wage dispute	Working conditions	*	Asked memorandum of terms	Hours increased from 40 to 49 per week without increase in	Asked 15 cents per hour increase and union recognition.	
	Auto mechanics	Warehouse workers	Truck drivers	Drivers	Timber workers	Employees	Cigarmakers	Foundry workers	Ironworkers	Employees	Pants makers	Drivers	Jewelry workers	Pipe-line workers	Candy workers	Bargemen	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
	Threatened	7	Strike		Strike.	Controversy	do		qo	qo	ор	do	do	Controversy	Strike	-do	
N. Y.	Miller Motor Co., Pittsburgh,	Santa Cruz Packing Corpora-	F. J. Boutel Co., Flint, Mich.	Dairy drivers, Tuisa, Okla	Elkhorn Piney Coal Mining Co., Powellton, W. Va.	A. B. Stone Co., Battle Creek,	Cigarmakers, Philadelphia, Pa.	Dick Brothers Foundry, Read-	Flour City Ornamental Iron	Paul, Minn. Samuel Finklestein Co., Nor-	8. & K. Pants Co., Lynchburg,	Truck drivers on Highway No.	Z. Escanaba, Mich.	Shell Oil Corporation, Missourt,	Lewis Bros. Co., Newark, N. J.	Curtis Bay Towing Co., Balti- more, Md.	Total

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LABOR AGREEMENTS

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Legalized Schedules of Wages and Hours in Ontario Building Trades

SINCE the passage of the Industrial Standards Act (25 Geo. V, 1935) of the Province of Ontario, which makes collective agreements between employers and workers enforceable as law, most of the building trades in the Toronto area have secured binding schedules of wages and hours. The new schedules went into effect during June and July 1935, but do not apply to work begun or contracted for before the effective dates.

The 5-day, 40-hour week is adopted for all skilled workers, a 45-hour week for plasterers' laborers, and a 48-hour week for common laborers. Working hours for the skilled craftsmen are from 8 a. m. to 5 p. m., with 1 hour for lunch where only one shift is worked. If work cannot be done during the day, it may be done "as a night shift of not more than 8 hours, at straight time." Where more than one shift is regularly used, 8 hours' pay shall be paid for 7 hours' work, but this applies only where the overtime shifts equal at least 66% percent of the regular shift. No employee may work on more than 1 shift in 24 hours unless overtime rates are paid.

The overtime provisions are not uniform, except with respect to work on holidays and Sundays, which must be paid for at double the regular rate in all cases. The specified holidays in addition to Sundays are: New Year's Day, Good Friday, Victoria Day, Dominion Day, Civic Holiday, Labor Day, Thanksgiving Day, and Christmas Day. Time and a half for overtime is the general rule. The electricians' agreement, however, calls for double pay for any overtime work not of an emergency nature. That of the sheet-metal workers calls for time and a half up to 10 p. m. and double time thereafter; emergency work on Saturdays must be paid for at regular rates during the morning, time and a half until 5 p. m., and double time thereafter. Where emergencies require that work be done on Saturdays, the rate for carpenters, lathers, and bricklayers is straight time

¹ See Monthly Labor Review, August 1935 (p. 405).

for morning work, and time and one-half thereafter; for electricians, straight time for morning work and double time thereafter.

A provision applying to bricklayers and masons, lathers, plasterers, and carpenters is that "in the event of any building exceeding 8 stories in height the eighth floor shall be known as the starting point at the starting time, and the employee shall proceed promptly to his work from this point, on the employer's time."

The minimum hourly rates as fixed in the schedules, which are enforceable throughout the Toronto zone under the terms of the act,

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Skilled trades:	Minimum hourly rate
Bricklayers and masons	\$0. 90
Carpenters and joiners	
Electricians (journeyman)	
Lathers	
Painters, spray	². 80
Painters, decorators, glaziers, and paperhangers	
Plasterers	90
Plumbers, steamfitters, and gasfitters:	
Journeymen	90
5th-year junior mechanics	60
Sheet-metal workers	75
Laborers:	
Common laborers	50
Painters' laborers	50
Plasterers' laborers	. 60

Apprentice regulations are not included in the agreements, but a clause is inserted stating that the Ontario apprenticeship act shall govern. The legalized agreements are to remain in effect for about a year from the date of their promulgation, most of them terminating on July 10, 1935. Under the terms of the act, the minimum wage board is the enforcing authority and penalties may be assessed against both employers and workers for infractions.

¹ To Sept. 1, 1935; 85 cents thereafter.

¹To Sept. 1, 1935; 75 cents thereafter.

LABOR TURN-OVER

Labor Turn-Over in Manufacturing Establishments, July 1935

THE higher accession rate and lower total separation rate in manufacturing industries shown by the Bureau's labor turn-over report for the month of July as compared with June indicate more stabilized employment conditions.

The turn-over rates shown represent the number of changes per 100 employees on the pay rolls during the month. The data were compiled from reports received by the Bureau of Labor Statistics from more than 5,000 representative manufacturing establishments in 144 industries. Approximately 1,875,000 workers were employed by the firms reporting to the Bureau in July.

In addition to information for manufacturing as a whole, rates are presented for 12 separate manufacturing industries. Reports were received from representative plants in these 12 industries employing at least 25 percent of the workers in each industry, according to the 1933 Census of Manufactures.

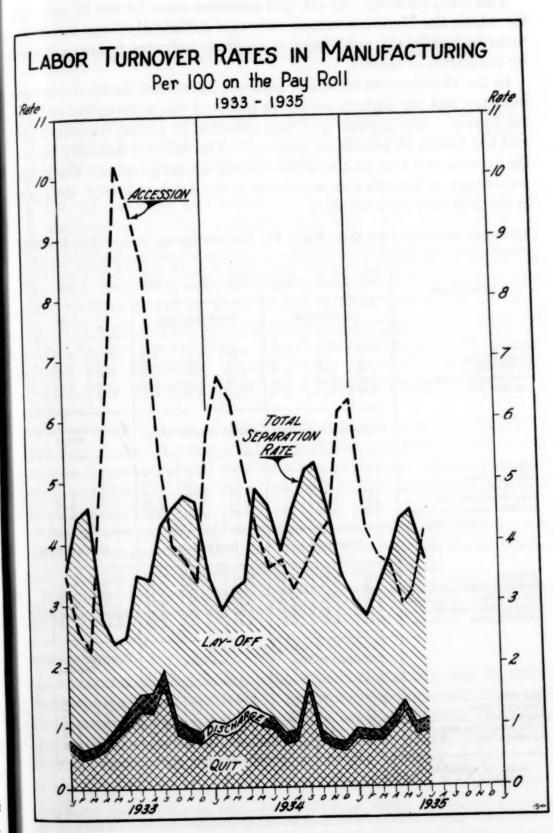
Trend by Months

THE accession rate for July was higher than for the same month of the previous year and for any of the preceding 4 months. Settlement of labor troubles in a number of sawmills in the States of Oregon and Washington had some influence on this rate. The quit rate was slightly higher than for June or for the month of July 1934. The lay-off rate was not only lower than for the same month of the preceding year but the lowest since March 1935.

The monthly trend of labor turn-over for manufacturing as a whole is shown in table 1 for 1934 and for the first 7 months of 1935.

Table 1.—Monthly Labor Turn-Over Rates Per 100 Employees in Representative Factories in 144 Industries

Class of rate and year	Jan- uary	Feb- ruary	March	April	May	June	July	Au- gust	Sep- tem- ber	Octo- ber	No- vem- ber	De- cem- ber
Quit rate:												
1935	0.76	0.73	0.75	0.93	1. 21	0.83	0.90					
1934	.90	. 85	.93	1.11	1.01	.94	.70	0.75	1.55	0.73	0.62	0.58
Discharge rate:			1									
1935	. 18	.18	.17	. 20	.17	. 20	.20					
1934	. 18	.19	. 21	. 23	. 22	. 18	. 19	.19	. 16	.19	. 15	.1
Lay-off rate:												
1935	2.10	1.88	2.32	2.60	3.00	3.46	2.57					
1934	2.35	1.85	2.08	2.04	3. 65	3.48	2.96	3.56	3, 41	4.38	3.78	2.7
Total separation rate:												
1935	3.04	2.79	3. 24	3.73	4.38	4.49	3.67					
1934	3, 43	2,89	3. 22	3.38	4.88	4.60	3.85	4.50	5. 12	5. 30	4. 55	3.4
Accession rate:										-		1
1935	6. 33	4, 23	3.79	3.63	3.01	3. 18	4.17					
1934	5. 81	6.71	6.33	5, 18	4. 19	3, 58	3.71	3. 24	3.61	4.09	4.32	6.



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Analysis by Industries

The quit, discharge, lay-off, and accession rates for the 12 industries for which the Bureau's sample covers a sufficiently large number of firms to justify the publishing of separate industry figures are given by industries in table 2.

In the 12 industries for which separate figures are shown the sawmill industry had the highest accession rate and the automotive industry the lowest. The highest quit rate occurred in cotton manufacturing and the lowest in petroleum refining. The sawmill industry showed the highest, and iron and steel the lowest, discharge rate. The largest percentage of lay-offs was registered in the brick industry, the lowest in the iron and steel industry.

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Table 2.—Monthly Turn-Over Rates Per 100 Employees in Specified Industries

Class of rates	July 1935	June 1935	July 1934	July 1935	June 1935	July 1934	July 1935	June 1935	July 1934
	At	atomobil	es	Boo	ts and sh	ioes		Brick	
Quit rate	0. 72 . 21 5. 02 5. 95 2, 46	0. 92 . 21 9. 47 10. 60 1. 95	0. 98 . 29 6. 38 7. 65 2. 93	0.89 .23 1.10 2.22 5.17	0. 59 . 15 2. 36 3. 10 6. 15	0.86 .30 .95 2.11 4.37	0. 47 . 13 7. 30 7. 90 8. 03	0. 55 . 15 5. 98 6. 68 7. 91	2. 64 . 08 8. 22 10. 94 6. 26
7.	Cigars	and ciga	arettes	Cotton	manufa	cturing	Foundr	ies and n	nachine
Quit rate	1. 58 . 30 . 99 2. 87 2. 65	1. 51 . 18 . 51 2. 20 3. 47	(1)	1, 87 . 27 3, 88 6, 02 4, 68	0. 97 . 25 6. 44 7. 66 3. 46	0. 88 . 32 1. 89 3. 09 3. 67	0. 77 . 19 3. 11 4. 07 3. 65	0. 86 . 39 3. 55 4. 80 3. 47	0. 55 . 26 2. 86 3. 55 3. 56
	1	Furnitur	е	Ire	on and st	eel	Me	n's cloth	ing
Quit rate Discharge rate Lay-off rate Total separation rate Accession rate	0. 61 . 24 1. 69 2. 54 6. 47	0. 53 . 17 2. 64 3. 34 4. 55	0. 49 . 37 3. 08 3. 94 6. 37	0.73 .08 .78 1.59 2.64	0. 86 . 15 1. 59 2. 59 1. 10	0, 56 .11 3, 74 4, 41 1, 12	0.95 .10 1.51 2.56 4.47	0. 74 . 07 3. 73 4. 54 4. 12	1.00 .00 2.11 3.3 2.5
	Petro	oleum rei	fining		Sawmille		Slaugh	tering an	nd meat
Quit rate Discharge rate Lay-off rate Total separation rate Accession rate	0. 43 . 15 1. 76 2. 34 3. 62	0. 51 .13 1. 27 1. 91 3. 52	000000	1. 68 . 44 3. 61 5. 73 17. 55	3. 43 . 30 3. 53 7. 26 8. 19	1. 52 .33 5. 61 7. 46 6. 38	0. 72 . 28 5. 55 6. 55 6. 37	0. 58 . 20 4. 90 5. 68 5. 66	1.3 4.2 5.9 15.4

¹ Rates not available.

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Average Annual Earnings in Construction, "Service" Industries, Trade, and Transportation and Public Utilities in Ohio, 1929 to 1933 1

THE annual wage and salary payments to persons employed in construction in Ohio averaged \$1,676 in 1929, \$1,026 in 1932, and \$861 in 1933; in the "service" industries \$1,384 in 1929, \$1,074 in 1932, and \$1,001 in 1933; in wholesale and retail trade \$1,237 in 1929, \$1,014 in 1932, and \$920 in 1933; and in transportation and public utilities \$1,429 in 1929, \$1,241 in 1932, and \$1,189 in 1933. In each of these general industry groups the average annual payment in 1933 was less than in 1932. The averages given above are for the three general occupation groups, "wage earners"; "bookkeepers, stenographers, and office clerks"; and "salespeople (not traveling)", combined.

The average number of persons reported employed was higher in 1933 than in 1932 in trade and transportation and public utilities, and lower in construction and the "service" industries. Total wage and salary payments in 1933 were less than in 1932 in each of the four general industry groups.

This article covers, by industries or activities, the four general industry groups—construction; "service" industries; trade, whole-sale and retail; and transportation and public utilities.

Summaries for these general industry groups were published in the Monthly Labor Review for April 1935.

Source and Scope of Study

Average wage and salary payments in this study, and in earlier studies published in the Monthly Labor Review beginning in January 1934, have been computed from reports furnished by Ohio employers. The reports were made annually as required by law, immediately after the close of each calendar year, to the Division of Labor Statistics, Department of Industrial Relations of Ohio. The employers'

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¹ By Fred C. Croxton, Columbus, Ohio, and Frank C. Croxton, Whiting, Ind. A series of articles on average annual wage and salary payments in Ohio was published in the Monthly Labor Review beginning in January 1934. That series covered the years 1916 to 1932 for all industries except construction and all industries combined, which were for 1918 to 1932. A new series on average annual wage and salary payments which began in the Monthly Labor Review for April 1935, covers the years 1929 to 1933.

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reports show, among other items, the number of persons employed on the 15th of each month and the total wage and salary payments during the year. Employers were not requested to furnish, in connection with such annual reports, information concerning number or proportion of employees working full time, part time, and overtime; nor were they requested to furnish information relative to the extent to which they had "spread" work or shortened hours during slack periods or provided overtime during busy periods. It is not possible to determine from data available the amount of part-time and overtime work during the period covered by this study and measure, even approximately, the effect of such conditions upon average annual wage and salary payments.

Reports were requested, in each of the years covered by this study, of all employers of three or more persons. Some reports were received each year from employers of fewer than three, and all such returns are included in the compilation. The number of establishments reporting varied from year to year, but the returns were from identical establishments throughout the 12 months of each year. Reports were not requested concerning employment by governmental units and in interstate transportation. A discussion of the completeness of the reports received and compiled by the Ohio Division of Labor Statistics will be found in the Monthly Labor Review for January 1934 (pp. 144, 145).

In supplying data concerning total wage and salary payments, employers were requested to report total wage and salary payments in dollars, including bonuses and premiums, and value of board and lodging furnished. Employers were instructed not to include salaries of officials.

The average number of persons employed was computed by dividing the sum of the numbers reported employed on the 15th of each month by 12. The average annual wage and salary payment was computed by dividing the total wage and salary payment for the year by the average number of persons employed. These averages should not be taken as exact measures but as approximate figures. It should be emphasized that average annual wage and salary payments as here computed do not show full-time earnings, as data concerning part-time and overtime work are not available. Full-time earnings may be either greater or less than the computed average. The changes from year to year, also, do not afford any measure of changes in wage or salary scales or rates of pay.

In preparing annual reports for the Ohio Division of Labor Statistics, employers were instructed to classify employees as follows:

Wage earners.—Include mechanics of all kinds, factory employees, shop forementaborers, laundry employees, cleaners, and caretakers in buildings, employees of alteration departments and delivery departments in stores, cash girls, check boys, farm hands, etc.

Bookkeepers, stenographers, and office clerks.—Include bookkeepers, typists, stenographers, copyists, timekeepers, draftmen, filing clerks, sales-office employees, cashiers, etc.

Salespeople (not traveling).—Include the selling force in stores and other estab-

lishments. Do not include traveling salespeople.

Superintendents and managers.—Include all superintendents and managers but not shop foremen. Shop foremen should be included under wage earners. Do not include salaries of officials.

Construction

THE average number of persons reported employed in construction each year from 1929 to 1933 is shown in table 1. The number decreased each year following 1929. The average number of wage earners reported employed in 1933 was 17.5 percent less than in 1932, and 72.7 percent less than in 1929.

Table 1.—Average Number Reported Employed in Construction in Ohio, 1929 to 1933, by General Occupation Groups

			Average nu	mber of—	
Year	Estab- lish- ments	Wage earners	Book- keepers, stenog- raphers, and office clerks	Sales- people (not travel- ing)	Total
1929	10, 183 9, 672 8, 272 6, 456 5, 586	72, 670 63, 625 41, 066 24, 094 19, 871	4, 844 5, 323 3, 630 2, 691 2, 220	1, 117 660 904 734 603	78, 631 69, 607 45, 601 27, 516 22, 698

Total wage and salary payments in construction each year from 1929 to 1933 are shown in table 2. Data for superintendents and managers are shown in this table but not elsewhere. Total wage and salary payments to each of the three occupation groups (omitting superintendents and managers) decreased each year after 1929. The total payments to wage earners in 1933 were \$7,343,456, or 31 percent, less than in 1932, and \$105,099,431, or 86.6 percent, less than in 1929.

Table 2.—Total Wage and Salary Payments in Construction in Ohio, 1929 to 1933, by General Occupation Groups

Year	Wage earners	Bookkeep- ers, stenog- raphers, and office clerks	Salespeople (not traveling)	Subtotal	Superin- tendents and managers	Grand total
1929	\$121, 413, 067	\$8, 160, 166	\$2, 196, 454	\$131, 769, 687	\$7, 823, 916	\$139, 593, 603
	98, 314, 644	9, 367, 262	1, 449, 083	109, 130, 989	7, 992, 681	117, 123, 670
	54, 519, 506	5, 833, 638	1, 313, 937	61, 667, 081	5, 695, 227	67, 362, 308
	23, 657, 092	3, 636, 039	950, 619	28, 243, 750	3, 270, 559	31, 514, 309
	16, 313, 636	2, 633, 765	601, 359	19, 548, 760	1, 937, 409	21, 486, 169

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Table 3 shows the average annual wage and salary payment in construction each year from 1929 to 1933. The average annual payment to wage earners decreased each year following 1929. The average payment to each of the other two occupation groups decreased each year following 1930. The average annual payment to wage earners in 1933 was \$161, or 16.4 percent, less than in 1932, and \$847, or 50.8 percent, less than in 1929.

Table 3.—Average Annual Wage and Salary Payments in Construction in Ohio, 1929 to 1933, by General Occupation Groups

Year	Wage	Book- keepers, stenog- raphers, and office clerks	Salespeople (not traveling)	All employees
1929 1930 1931 1932 1933	\$1,668 1,545 1,328 982 821	\$1, 685 1, 760 1, 607 1, 351 1, 186	\$1, 966 2, 196 1, 453 1, 295 997	\$1,67 1,56 1,35 1,02

Table 4 shows, for construction, indexes of average number of wage earners employed and total and average annual wage and salary payments to wage earners for each year from 1929 to 1933. The base used is the year 1926.

In 1933, only 26.6 percent as many wage earners were employed as in 1926, total wage and salary payments were only 13.5 percent as much, and the average wage and salary payment was 51 percent of the 1926 payment.

Table 4.—Indexes of Number of Wage Earners Employed and Wage and Salary Payments to Wage Earners in Construction in Ohio, 1929 to 1933

Year	Wage earners (average	Wage and sala	ry payment
made and a compared to the oral (EAstern &	number)	Total	Average
1929	97. 4 85. 3 55. 0 32. 3 26. 6	101. 0 81. 8 45. 4 19. 7 13. 5	103. 95. 82. 61. 51.

Employment and Wage and Salary Payments, by Industries

THE four tables which follow present data for wage earners by industries. Table 5 shows for each industry the number of establishments reporting.

Table 5.—Number of Establishments Reporting in Construction in Ohio, 1929 to 1933, by Industries

Year	Brick, stone, and cement work	Electrical contract- ing	Erecting or install- ing ma- chinery	General contract- ing, in- cluding wrecking	Oil, gas, and water drilling or pro- ducing	Painting and dec- orating	Plastering, in- cluding lathing and stucco work
1929	1, 005 397 795 600 484	456 433 402 317 279	239 245 180 152 145	3, 538 3, 139 2, 566 1, 825 1, 680	739 751 670 639 584	990 1,002 860 645 598	329 284 254 169 134
	Plumb- ing and steam- fitting	Sand and gravel excavat- ing	Sheet- metal work and roofing	Street, road, and sewer contract- ing	Ventilat- ing and heating	Construc- tion not otherwise classified	
1929	842 821 742 618 531	155 158 146 136 123	515 505 473 382 330	1, 161 1, 203 973 770 530	141 148 157 169 137	73 86 54 34 31	

Table 6 shows the average number of wage earners reported employed in each industry. The average number employed decreased each year following 1929 in 11 of the 13 industries (considering the group "not otherwise classified" as an industry).

Table 6.—Average Number of Wage Earners Reported Employed in Construction in Ohio, 1929 to 1933, by Industries

Year	Brick, stone, and cement work	Electri- cal con- tracting	Erecting or in- stalling machin- ery	General contract- ing, in- cluding wrecking	Oil, gas, and water; drilling or pro- ducing	Painting and deco- rating	Plaster- ing, in- cluding lathing and stucco work
1929	5, 935	3, 080	983	28, 796	3, 646	3, 415	1, 629
1930	4, 837	3, 670	916	22, 695	3, 139	2, 834	1, 462
1931	3, 380	2, 372	742	13, 866	2, 349	1, 895	972
1932	1, 678	1, 267	467	6, 516	2, 295	1, 061	420
1933	1, 052	983	366	6, 029	2, 269	987	234
	Plumb- ing and steam fitting	Sand and gravel excavat- ing	Sheet- metal work and roofing	Street, road, and sewer contract- ing	Venti- lating and heating	Construction, not otherwise classified	
1929	4, 828	1, 499	3, 041	14, 184	1, 180	457	
1930	4, 270	1, 430	2, 651	14, 001	1, 078	642	
1931	2, 885	1, 066	1, 771	8, 509	909	353	
1932	1, 690	863	1, 159	5, 921	556	212	
1933	1, 376	782	1, 056	4, 119	413	204	

\$1,676 1,568 1,352 1,026 861

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Table 7 shows the average annual wage and salary payment to wage earners in each of the construction industries for each year from 1929 to 1933. The average annual payment decreased each year following 1929 in 9 of the industries. There was an increase in average in 1933 over 1932 in 2 industries.

Table 7.—Average Annual Wage and Salary Payments to Wage Earners in Con. struction in Ohio, 1929 to 1933, by Industries

Year	Brick, stone, and cement work	Electri- cal con- tracting	Erecting or in- stalling machin- ery	General contract- ing, in- cluding wrecking	Oil, gas, and water; drilling or pro- ducing	Painting and deco- rating	Plaster ing, in- cluding lathing and stucco work
1929	\$1, 571 1, 499 1, 306 936 760	(1) \$1,739 1,700 1,333 1,295	\$1, 941 2, 065 1, 910 1, 509 1, 663	\$1,727 1,625 1,375 1,008 786	\$1, 242 1, 252 1, 068 917 668	\$1,825 1,732 1,518 1,111 911	\$1,8 1,9 1,6 1,1
	Plumb- ing and steam fitting	Sand and gravel excavat- ing	Sheet- metal work, and roofing	Street, road, and sewer contract- ing	Venti- lating and heating	Construc- tion, not other- wise classified	
1929	\$1,861 1,796 1,520 1,067 961	\$1, 425 1, 339 1, 106 905 746	\$1,657 1,559 1,448 942 821	\$1, 343 1, 258 1, 010 836 700	\$2,057 1,804 1,567 1,026 1,096	\$1,402 1,501 1,320 828 747	

¹ Omitted due to probable error in reporting or tabulating.

Table 8 shows for each industry, except the group "not otherwise classified", indexes of average number of wage earners employed and total and average annual wage and salary payments to wage earners. The base used is the year 1926.

In 10 of the 12 industries for which indexes are shown, the indexes in 1933 were lower than in 1932 in each of the three items covered—average number employed, total wage and salary payments, and average annual wage and salary payments. In the other 2 industries, the 1933 index of average annual wage and salary payments was higher than in 1932. Brick, stone, and cement work, general contracting, and plastering, lathing, and stucco work show the greatest decline since 1926 (the base year).

Table 8.—Indexes of Number Employed and Wage and Salary Payments to Wage Earners in Construction in Ohio, 1929 to 1933, by Industries

[1926 = 100.0]

			Į,	1926=100.0	1					
	Brick, s	tone, and work	cement	Electr	ical contr	acting		ng or inst		
Year	Wage earners	earners payments		Wage earners			Wage earners	Wage and salary payments		
	(average number)	Total	Average	(average number)	Total	Average	(average number)	Total	Average	
1929	70. 9 49. 5 24. 6	81. 1 63. 1 38. 4 13. 7 7. 0	93. 2 89. 0 77. 5 55. 5 45. 1	124. 2 148. 0 95. 7 51. 1 39. 7	(1) 134. 2 84. 8 35. 5 26. 8	(1) 90. 7 88. 6 69. 5 67. 5	163. 6 152. 4 123. 5 77. 7 60. 9	152, 0 150, 7 112, 9 56, 2 48, 5	93. 0 98. 9 91. 5 72. 3 79. 6	
		ral contra iding wre			gas, and a		Paintin	ng and de	corating	
929 930 931 932	79. 2 48. 4 22. 7	96. 4 71. 5 36. 9 12. 7 9. 2	76. 3 56. 0	80. 5 69. 3 51. 9 50. 7 50. 1	81. 2 70. 5 45. 0 37. 7 27. 2	100. 8 101. 6 86. 7 74. 4 54. 2	111. 8 92. 8 62. 0 34. 7 32. 3	111. 8 88. 0 51. 6 21. 1 16. 1	100. 0 94. 9 83. 1 60. 8 49. 9	
	Plasteri ing a	ng, included	ding lath-	Plum	abing and fitting	steam	Sano	d and gra cavating		
1929	92.3 61.4 26.5	92. 3 84. 4 47. 5 14. 2 6. 5	91. 4 77. 3 53. 7	89. 6 60. 6 35. 3	100. 9 86. 1 49. 2 20. 1 14. 8	96. 0 81. 3 57. 1	98. 5 73. 4 59. 4	106. 2 95. 3 58. 7 38. 9 29. 0	96. 7 79. 9 65. 4	
	Sheet	-metal w roofing		Street	t, road, ar contracti		Ventil	lating and	l heating	
1929	90. 7 60. 6 39. 7	54. 7 23. 3	97. 1 7 90. 3 58. 7	84. 1 51. 1 35. 6	93. 6 45. 7 26. 3	89.3 73.9	112.8 95.1 58.2	101. 9 74. 6 29. 9	90.3 78.3 51.4	

Omitted due to probable error in reporting or tabulating.

"Service" Industries

In the "service" industries there are a number of industries or activities seldom included in statistical studies. The reporting lists in some of the activities necessarily have been developed slowly, and therefore, the increases in employment and in total wage and salary payments are accounted for in part by more nearly complete coverage from year to year. This should be borne in mind in using figures for those two items for comparative purposes. The average number of persons reported employed in the "service" industries has decreased each year since 1930, and the average number of wage earners and salespeople (not traveling) has decreased each year since 1929. The average number of wage earners reported employed in 1933 was 9.1 percent less than in 1932 and 17.5 percent less than in 1929. The

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Table 9 shows the average number of persons reported employed in the "service" industries each year from 1929 to 1933.

Table 9.—Average Number Reported Employed in "Service" Industries in Ohio, 1929 to 1933, by General Occupation Groups

			Average n	amber of—	
Year	Establish- ments	Wage earners	Bookkeep- ers, stenog- raphers, and office clerks	Sales- people (not traveling)	Total
1929	9, 335 10, 241 10, 452 10, 357 10, 215	100, 805 99, 427 97, 184 91, 523 83, 190	44, 374 51, 162 48, 590 42, 964 44, 503	7, 930 4, 423 4, 348 3, 918 3, 614	153, 10 155, 01 150, 12 138, 40 131, 30

Table 10 shows total wage and salary payments in the "service" industries each year from 1929 to 1933. Data for superintendents and managers are included in this table but not elsewhere. Total wage and salary payments to all occupation groups combined and also to wage earners and salespeople, decreased each year since 1929. The total payments to wage earners in 1933 were \$19,692,784, or 22.9 percent, less than in 1932 and \$52,694,314, or 44.3 percent, less than in 1929. Total payments to bookkeepers, stenographers, and office clerks were greater in 1933 than in 1932.

Table 10.—Total Wage and Salary Payments in "Service" Industries in Ohio, 1929 to 1933, by General Occupation Groups

Year	Wage earners	Bookkeep- ers, stenog- raphers, and office clerks	Sales- people (not traveling)	Subtotal	Superintendents and managers	Grand total
1929 1930 1931 1931 1932 1933	\$118, 959, 260 111, 692, 103 103, 607, 067 85, 957, 730 66, 264, 946	83, 742, 536 75, 869, 112 58, 630, 191	\$16, 074, 147 6, 998, 762 6, 060, 877 4, 093, 525 3, 895, 052	\$211, 907, 304 202, 433, 401 185, 537, 056 148, 681, 446 131, 385, 597	\$26, 384, 039 27, 932, 230 24, 510, 860 19, 735, 297 16, 860, 884	\$238, 291, 34 230, 365, 63 210, 047, 91 168, 416, 74 148, 246, 48

Average annual wage and salary payments in the "service" industries are shown in table 11 for each year from 1929 to 1933. The average annual wage and salary payment to the three occupation groups combined and also to wage earners decreased each year since 1929. The average annual payment to wage earners in 1933 was \$142, or 15.1 percent, less than in 1932, and \$383, or 32.5 percent, less than in 1929. Average annual payments to the clerical and sales groups were higher in 1933 than in 1932.

Table 11.—Average Annual Wage and Salary Payments in "Service" Industries in Ohio, 1929 to 1933, by General Occupation Groups

Year	Wage earners	Bookkeep- ers, ste- nographers, and office clerks	Salespeople (not travel- ing)	All employees
1929	\$1, 180	\$1, 732	\$2, 027	\$1, 384
	1, 123	1, 637	1, 582	1, 300
	1, 066	1, 561	1, 394	1, 230
	939	1, 365	1, 045	1, 074
	797	1, 376	1, 078	1, 00

Table 12 shows, for the "service" industries, indexes of average annual wage and salary payments to wage earners, clerical employees, and all occupation groups combined for each year, 1929 to 1933. The base used is the year 1926. Indexes of average number of persons employed and total wage and salary payments have been omitted for reasons already stated.

Table 12.—Indexes of Average Annual Wage and Salary Payments in "Service" Industries in Ohio, 1929 to 1933, by General Occupation Groups

[1926=10	0]					
Dannessay as a stable of	Average wage and salary payments to-					
Year	Wage earners	Bookkeepers, stenographers, and office clerks	All employees			
1929	102. 3 97. 4 92. 5 81. 4 69. 1	114. 6 108. 3 103. 2 90. 3 91. 0	106. 5 100. 5 95. 2 82. 7 77. 1			

Employment and Wage and Salary Payments, by Industries or Activities

The five tables which follow present data by industries or activities. In this study certain industries or activities, for which comparatively few employees were reported in Ohio, were combined under "Service, other." Those so combined are: Homes for aged and children; laboratories; mausoleums and cemeteries; photographers; professional; radio broadcasting; recreation camps for boys and girls; shoe repairing; undertakers; and service, not otherwise classified.

In the tables relating to bookkeepers, stenographers, and office clerks, all industries and activities listed above and also all included in the wage earners' tables, except 7, are combined under "Service, other."

Table 13 shows the number of establishments reporting in each industry or activity each year from 1929 to 1933.

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Table 13.—Number of Establishments Reporting in "Service" Industries in Ohio, 1929 to 1933, by Industries or Activities

Year	Adver- tising	Banks	Barbers and hair- dressers	Bowling alleys and parks	Church- es	Clubs (ath- letic, coun- try, and yacht)	Ga- rages, includ- ing auto- body repair- ing	Hos- pitals	Hotels	Laun- dries, dry clean- ers, and reno- vators
1929	58	908	108	217	78	194	1, 921	189	406	526
1930	65	920	119	311	113	225	1, 947	217	390	537
1931	65	821	142	265	138	267	1, 820	192	383	553
1932	69	787	168	231	160	268	1, 618	191	356	53
1933	66	755	155	210	200	273	1, 474	190	332	531
n bin	Offices	Office buildings, including window cleaning		Schools and col- leges	Servants in pri- vate homes	Social agen- cies	Thea- ters	YMCA and YWCA	Service, other	
1929	1, 826	502	1, 207	130	228	133	291	47	366	
1930	2, 145	575	1, 365	126	310	139	274	44	419	
1931	2, 301	612	1, 336	132	403	138	278	41	563	
1932	2, 501	653	1, 159	132	458	148	279	37	608	
1933	2, 486	733	1, 101	123	501	152	271	37	639	

The average number of wage earners and of bookkeepers, stenographers, and office clerks is shown in table 14. The average number of wage earners reported employed in 1933 was less than in 1932 in 15 of the 19 industries or activities (considering "other" as an industry or activity), and greater in 4. The average number of bookkeepers, stenographers, and office clerks reported employed in 1933 was less than in 1932 in 6 of the 8 industries or activities shown, and greater in 2.

Table 14.—Average Number Reported Employed in "Service" Industries in Ohio, 1929 to 1933, by General Occupation Groups and by Industries or Activities

0.00	Wage earners										
Year	Adver- tising	Banks	Barbers and hair- dressers	Bowling alleys and parks	Church- es	Clubs (coun- try, ath- letic, golf, and yacht)	Garages, includ- ing auto- body repair- ing	Hospi- tals and sanita- riums	Hotels		
1929	949 1, 060 1, 005 926 855	2, 093 2, 069 1, 891 1, 794 1, 515	749 910 1, 013 1, 129 1, 098	2, 538 2, 812 2, 323 1, 858 1, 624	601 941 1, 077 1, 182 1, 390	3, 028 3, 088 3, 099 2, 714 2, 431	14, 447 12, 933 10, 920 8, 976 8, 488	9, 989 10, 073 10, 008 9, 406 8, 833	12, 59 12, 28 11, 44 9, 80 8, 63		

Table 14.—Average Number Reported Employed in "Service" Industries in Ohio, 1929 to 1933, by General Occupation Groups and by Industries or Activities—Continued

				Wage ea	rners—Co	ontinued			
	Laun- dries, dry cleaners, and ren- ovators	Offices	Office build- ings, in- cluding window cleaning	Restau- rants	Schools and colleges	Servants in pri- vate homes	Social agencies	Theaters	YMCA and YWCA
929 930 931 932 933	14, 487 14, 571 13, 428 11, 915 10, 855	4, 728 2, 502 3, 281 1 5, 972 2, 400	5, 981 6, 304 6, 549 6, 768 7, 269	13, 731 14, 438 13, 496 11, 404 11, 062	4, 539 4, 767 4, 877 4, 915 4, 616	1, 050 1, 520 1, 739 1, 844 1, 921	1, 473 1, 703 1, 937 2, 396 1, 789	4, 217 3, 605 3, 775 3, 028 2, 933	947 874 1, 024 904 888
	Wage earners— Contd.		Во	okkeepers	, stenogra	aphers, an	d office cl	erks	
	Service, other	Banks	Garages, includ- ing auto- body repair- ing	Hospi-	Hotels	Laun- dries, dry cleaners, and reu- ovators	Offices	Schools and colleges	Service, other
1929 1970 1931 1932	2, 663 2, 969 4, 304 4, 583 4, 589	14, 149 14, 283 12, 249 11, 161 8, 930	2, 794 3, 054 2, 521 2, 017 1, 760	907 907 918 882 850	1, 408 1, 279 1, 188 1, 068 999	955	20, 495 26, 536 26, 194 1 22, 445 27, 068		2, 964 3, 348 3, 889 3, 890 3, 423

¹ Increase in number of wage earners and decrease in number of bookkeepers, stenographers, and office clerks possibly due in part to change in classification of some employees in certain types of offices.

Table 15 shows average annual wage and salary payments to wage earners and bookkeepers, stenographers, and office clerks. The average annual payment to wage earners was less in 1933 than in 1932 in each of the 19 industries or activities. In 8 the average decreased each year since 1929 and in 9 others it decreased each year since 1930. The average annual wage and salary payment to bookkeepers, stenographers, and office clerks was higher in 1933 than in 1932 in 1 of the 8 ndustries or activities shown. In 4 the average decreased each year since 1929 and in 3 others it decreased each year since 1930.

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Table 15.—Average Annual Wage and Salary Payments in "Service" Industries in Ohio, 1929 to 1933, by General Occupation Groups and by Industries or Activities

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	Wage earners										
Year	Adver- tising	Banks	Barbers and hair dressers	Bowling alleys and parks	Church-es	Clubs (coun- try, golf, athletic, and yacht)	Garages, includ- ing auto- body re- pairing	Hospi- tals and sanita- riums	Hotels		
1929 1930 1931 1931 1932 1933	\$1,306 1,192 1,050 844 751	\$1,008 1,054 942 924 698	\$1,336 1,135 1,059 877 770	\$1, 045 977 856 807 627	\$928 874 1, 024 948 905	\$1,067 1,114 1,025 822 710	\$1, 532 1, 502 1, 280 1, 014 894	\$904 909 869 810 758	\$818 858 779 684 587		
				Wage es	arners—C	ontinued					
	Laun- dries, dry cleaners, and ren- ovators	Offices	Office build- ings, in- cluding window cleaning	Restau- rants	Schools and col- leges	Servants in pri- vate homes	Social agencies	Theaters	YMCA and YWCA		
1929	\$1,066 1,016 934 773 684	\$2, 404 1, 742 1, 708 1, 659 1, 168	\$1, 104 1, 119 1, 071 936 829	\$876 842 920 665 598	\$1, 655 1, 773 1, 745 1, 573 1, 338	\$1, 114 1, 107 1, 051 893 831	\$1,026 1,087 1,073 967 786	\$1,605 1,630 1,593 1,345 1,164	\$938 827 793 734 56		
	Wage earn- ers-Con.		Во	okkeepers	, stenogr	aphers, an	d office cl	erks			
	Service, other	Banks	Garages includ- ing auto- body re- pairing	Hospi- tals and sanita- riums	Hotels	Laun- dries, dry cleaners, and ren- ovators	Offices	Schools and col- leges	Service other		
1929	\$1, 277 1, 382 1, 167 1, 040 959	\$1, 586 1, 570 1, 495 1, 453 1, 395	\$1, 694 1, 388 1, 248 1, 075 963	\$1, 147 1, 182 1, 172 952 837	\$1, 175 1, 162 1, 082 989 881	\$1, 153 1, 195 1, 086 937 812	\$2,013 1,802 1,726 1,442 1,498	\$1,505 1,379 1,359 1,310 1,236	\$1, 22 1, 33 1, 25 1, 11 1, 00		

Table 16 shows for each of 6 industries or activities indexes of average number of persons employed and total and average annual wage and salary payments. In 4, indexes are shown for wage earners and bookkeepers, stenographers, and office clerks, and in 2 for wage earners only.

Considering wage earners, indexes of each of the 3 items—average number employed, total wage and salary payments, and average annual wage and salary payments—were lower in 1933 than in 1932 in each of the 6 industries or activities shown. For the clerical group, also, the indexes of each of the 3 items were lower in 1933 than in 1932 in each of the 4 industries or activities shown.

Table 16.—Indexes of Number Employed and Wage and Salary Payments in Certain "Service" Industries in Ohio, 1929 to 1933, by General Occupation Groups and by Industries or Activities

[1926 - 100.0]

	[1920-]	100.01							
12111111111	Banks								
Year	Wage earners			Bookkeepers, stenographers, and office clerks					
	Number (average)	Wage and salary payments		Number	Wage and salary payments				
		Total	Average	(average)	Total	Average			
1929		113. 8 117. 7 96. 1 89. 4 57. 1	89. 5 93. 6 . 83. 7 82. 1 62. 0	113. 4 114. 5 98. 2 89. 5 71. 6	117. 7 117. 6 96. 1 85. 1 65. 3	103. 8 102. 7 97. 8 95. 1 91. 3			
	Garages, including auto-body repairing								
1929		118. 1 103. 7 74. 6 48. 6 40. 5	104. 1 102. 0 87. 0 68. 9 60. 7	93. 2 101. 9 84. 1 67. 3 58. 7	110. 7 99. 1 73. 6 50. 7 39. 6	118. 7 97. 3 87. 5 75. 3 67. 5			
	Hotels								
1929	98.5	105. 5 107. 9 91. 3 68. 7 51. 9	97. 3 102. 0 92. 6 81. 3 69. 8	107. 6 97. 8 90. 8 81. 7 76. 4	114. 4 102. 8 88. 9 73. 0 60. 9	106. 2 105. 1 97. 8 89. 4 79. 7			
	Laundries, dry cleaners, and renovators								
1929	125. 2 115. 3	126. 3 121. 0 102. 5 75. 3 60. 7	96.8 89.0	131. 1 115. 6 108. 0	128. 2 140. 9 113. 0 91. 1 73. 2	84.3			
	Restaurants: Wage earners			Theaters: Wage earners					
1929	122.8	135. 8 137. 2 140. 1 85. 6 74. 6	104. 3 114. 0 82. 4	87. 3 91. 4 73. 3	104. 7 90. 8 93. 0 63. 0 52. 8	104. 101. 85.			

Table 17 shows for each of 12 industries or activities (not included in table 16) indexes of average annual wage and salary payments to wage earners. In 3 of the 12 industries indexes are also shown of average annual payments to bookkeepers, stenographers, and office clerks. In each of the 12 industries or activities the index for wage earners was lower in 1933 than in 1932. In 1 of the 3 industries or activities for which indexes are shown for the clerical group, the index was higher in 1933 than in 1932.

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Table 17.—Indexes of Average Annual Wage and Salary Payments in Certain "Service" Industries in Ohio, 1929 to 1933, by General Occupation Groups

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	[1926=	=100.0]						
Year	Wage earners							
	Adver- tising	Barbers and hair dressers	Bowling alleys and parks	Churches	Clubs (country, golf, ath- letic, and yacht)	Hospitals and sani- tariums		
1929 1930. 1931. 1932. 1933.	65. 2 59. 5 52. 4 42. 2 37. 5	106. 4 90. 4 84. 3 69. 8 61. 3	95. 4 89. 2 78. 2 73. 7 57. 3	108. 5 102. 2 119. 8 110. 9 105. 8	100. 7 105. 1 96. 7 77. 5 67. 0	106.9 107.4 102.7 95.7 89.6		
	Wage earners—Continued							
	Offices	Office buildings, including window cleaning	Schools and colleges	Servants in private homes	Social agencies	YMCA and YWCA		
1929	108. 9 78. 9 77. 4 75. 2 52. 9	102. 0 103. 4 99. 0 86. 5 76. 6	102. 0 109. 3 107. 6 97. 0 82. 5	112. 3 111. 6 105. 9 90. 0 83. 8	94. 0 99. 6 98. 4 88. 6 72. 0	107. 95. 91. 84. 64.		
	Bookkeepers, stenographers, and office clerks							
	Hospitals and sani- tariums		Schools and colleges					
1929	108. 3 111. 6 110. 7 89. 9 79. 0	123. 5 110. 6 105. 9 88. 5 91. 9	119. 3 109. 3 107. 7 103. 8 97. 9					

Trade, Wholesale and Retail

The average number of persons reported employed in wholesale and retail trade is shown in table 18. The average number of persons employed, in the three occupation groups combined, in wholesale and retail trade decreased in each of the 3 years following 1929 and increased in 1933. The increase from 1932 to 1933 was in the average number of salespeople. A decrease is shown in each of the other two occupation groups. The average number of persons employed in the three occupation groups combined in 1933 was 1.4 percent greater than in 1932 and 16.6 percent less than in 1929.

Table 18.—Average Number Reported Employed in Wholesale and Retail Trade in Ohio, 1929 to 1933, by General Occupation Groups

		Average number of—					
Year	Estab- lish- ments	Wage earners	Book- keepers, stenogra- phers, and office clerks	Sales- people (not trav- eling)	Total		
1929	9, 524 10, 022 10, 111 9, 716 9, 647	56, 971 57, 845 55, 482 49, 087 48, 049	24, 973 24, 482 22, 267 19, 545 18, 671	67, 280 59, 959 59, 555 54, 106 57, 766	149, 22 142, 28 137, 30 122, 73 124, 48		

Table 19 shows total wage and salary payments in wholesale and retail trade each year from 1929 to 1933. Data for superintendents and managers are included in this table but not elsewhere. Total payments to wage earners and to salespeople decreased each year following 1929, and total payments to the clerical group and to superintendents and managers decreased each year following 1930. Total payments to wage earners, bookkeepers, stenographers, and office clerks, and salespeople (not traveling), combined, in 1933, were \$10,022,115, or 8.1 percent, less than in 1932 and \$70,114,948, or 38.0 percent, less than in 1929.

Table 19.—Total Wage and Salary Payments in Wholesale and Retail Trade in Ohio, 1929 to 1933, by General Occupation Groups

Year	Wage earners	Bookkeep- ers, ste- nographers, and office clerks	Salespeople (not travel- ing)	Subtotal	Superin- tendents and man- agers	Grand total
1929	\$72, 980, 211	\$33, 268, 959	\$78, 338, 716	\$184, 587, 886	\$28, 532, 443	\$213, 120, 329
	72, 844, 362	34, 396, 203	67, 848, 122	175, 088, 687	32, 256, 244	207, 344, 931
	67, 505, 063	28, 548, 605	64, 051, 911	160, 105, 579	26, 096, 282	186, 201, 861
	52, 243, 081	21, 934, 553	50, 317, 419	124, 495, 053	20, 821, 876	145, 316, 929
	46, 592, 394	19, 069, 688	48, 810, 856	114, 472, 938	17, 092, 965	131, 565, 903

Table 20 shows average annual wage and salary payments in whole-sale and retail trade each year from 1929 to 1933. The average annual payment to wage earners and to salespeople decreased each year following 1929 and the average annual payment to the clerical group decreased each year following 1930. For the three occupation groups combined, the average annual payment in 1933 was \$94, or 9.3 percent, less than in 1932, and \$317, or 25.6 percent, less than in 1929.

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Table 20.—Average Annual Wage and Salary Payments in Wholesale and Retail Trade in Ohio, 1929 to 1933, by General Occupation Groups

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Year	Wage earn- ers	Bookkeep- ers, ste- nographers, and office clerks	S despeople (not travel- ing)	All employees
1929 1930 1931 1931 1932 1933	\$1, 281 1, 259 1, 217 1, 064 970	\$1, 332 1, 405 1, 282 1, 122 1, 021	\$1, 164 1, 132 1, 076 930 845	\$1, 23 1, 23 1, 16 1, 01

Table 21 shows for wholesale and retail trade, indexes of average number of persons employed and total and average annual wage and salary payments for each year from 1929 to 1933. The base used is the year 1926. For wage earners and for the clerical group the indexes in 1933 were lower than in 1932 for each of the three items covered—average number employed, total payments, and average annual payments. For salespeople and for the three occupation groups combined the index of average number employed was higher in 1933 than in 1932.

Table 21.—Indexes of Number Employed and Wage and Salary Payments in Wholesale and Retail Trade in Ohio, 1929 to 1933, by General Occupation Groups

[1926=100.0]

15 O SAME	w	age earner	rs	Bookkeepers, stenographers, and office clerks			
Year	Number Wage and sale payments			Number	Wage and salary payments		
	(average)	Total	Average	(average)	Total	Average	
1929	100. 8 102. 3 98. 1 86. 8 85. 0	100. 8 100. 7 93. 3 72. 2 64. 4	100. 0 98. 4 95. 1 83. 1 75. 8	108.3 106.2 96.6 84.8 81.0	106. 5 110. 1 91. 4 70. 2 61. 1	98.3 103.7 94.6 82.8 75.4	
hadred interdepolar	Salespeo	ple (not tr	raveling)	Al	All employees		
1929 1930 1931 1932 1933	126. 5 112. 7 112. 0 101. 7 108. 6	123. 4 106. 9 100. 9 79. 3 76. 9	97. 5 94. 8 90. 1 77. 9 70. 8	112.4 107.2 103.4 92.4 93.7	110. 5 104. 8 95. 8 74. 5 68. 5	98.3 97.9 92.7 80.6 73.1	

Employment and Wage and Salary Payments, by Trade Groups

THE FIVE tables which follow present data by trade groups. Table 22 shows the number of establishments reporting in each trade group each year from 1929 to 1933.

Table 22.—Number of Establishments Reporting in Wholesale and Retail Trade in Ohio, 1929 to 1933, by Trade Groups

Year	Stores, whole- sale and retail	Yards—lumber, coal, and scrap	Retail deliv- ery—milk, ice, and water
1929	8, 061	1, 326	137
	8, 494	1, 389	139
	8, 553	1, 394	164
	8, 155	1, 390	171
	8, 103	1, 378	166

Table 23 shows for each trade group the average number of persons reported employed in each of the three occupation groups. The average number of persons employed in the three occupation groups combined, in each trade group, increased from 1932 to 1933. In wholesale and retail stores the average number of salespeople increased and the average number of wage earners and clerical employees decreased in 1933 as compared with 1932.

Table 23.—Average Number Reported Employed in Wholesale and Retail
Trade in Ohio, 1929 to 1933, by Trade Groups

	Sto	ores, wholes	sale and ret	ail	Yards—lumber, coal, and scrap				
Year	Wage earners	Book- keepers, stenog- raphers, and office clerks	Sales- people (not trav- eling)	Total	Wage earners	Book- keepers, stenog- raphers, and office clerks	Sales- people (not trav- eling)	Total	
1929	46, 395 49, 204 46, 498 41, 000 39, 542	22, 835 22, 289 20, 254 17, 791 17, 001	66, 777 59, 617 59, 134 53, 722 57, 395	136, 007 131, 109 125, 886 112, 513 113, 938	8, 597 6, 578 6, 445 5, 943 6, 302	1, 920 1, 963 1, 709 1, 513 1, 416	444 307 392 359 337	10, 961 8, 848 8, 547 7, 814 8, 055	
- will make	Retail	delivery—n	nilk, ice, an	d water	l sive				
1929	1, 979 2, 064 2, 538 2, 145 2, 204	218 230 304 241 254	59 34 29 24 1 34	2, 256 2, 328 2, 871 2, 411 2, 492					

¹ Carried in tabulations of the Ohio Division of Labor Statistics under "Trade, not otherwise classified".

Table 24 shows fluctuation of employment from month to month in wholesale and retail stores during the years 1929 to 1933. The maximum employment during the 5 years for the three occupation groups combined was in December 1929, and the minimum employment in March 1933. The number employed in December 1933 was 9.9 percent above the number in December 1932 and was 2.1 percent below the number in December 1931.

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Table 24.—Fluctuation of Employment in Wholesale and Retail Stores in Ohio, 1929 to 1933

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[Data are for the 3 occupation groups—wage earners; bookkeepers, stenographers, and office clerks; and salespeople, not traveling—combined and for both sexes]

Month	1929	1930	1931	1932	1933
January	127, 086	128, 964	122, 882	112, 103	103, 916
February	126, 924	128, 319	121, 888	110, 806	103, 502
March	130, 600	130, 423	124, 293	112, 615	101, 631
April	133, 459	134, 612	127, 708	113, 675	112, 423
May	134, 301	132, 525	127, 259	114, 587	109, 038
June	135, 394	131, 807	126, 670	112, 695	111, 651
July	133, 704	127, 635	123, 341	109, 005	111, 027
August	134, 043	125, 614	122, 774	107, 077	114, 161
September	137, 306	128, 074	125, 949	109, 923	119, 984
October	141, 216	129, 922	125, 650	113, 147	123, 024
November	142, 200	131, 944	125, 631	112, 826	123, 024
December	155, 850	143, 472	136, 590	121, 694	133, 718
Maximum	155, 850	143, 472	136, 590	121, 694	133, 718
Minimum	126, 924	125, 614	121, 888	107, 077	101, 631
Variation from maximum 1—					
Number	28, 926	17, 858	14, 702	14, 617	32, 087
Percent	18.6	12.4	10.8	12.0	24. (

¹ Eliminating from consideration the month of December, with the large number of extra employees taken on in retail stores to handle the holiday trade, the percent of variation from the maximum for the 11 months of each year from 1929 to 1933 was 10.7, 6.7, 4.6, 6.6, and 17.5, respectively.

Average annual wage and salary payments in each of the trade groups are shown in table 25. In wholesale and retail stores, average annual wage and salary payments to wage earners decreased each year following 1929 (except for an increase of \$1 in 1931), the average payment to the clerical group decreased each year following 1930, and the average payment to salespeople (not traveling) decreased each year following 1929. Considering the three occupation groups combined, the average annual payment in 1933 was \$93, or 9.2 percent, less than in 1932, and \$297, or 24.4 percent, less than in 1929.

Table 25.—Average Annual Wage and Salary Payments in Wholesale and Retail Trade in Ohio, 1929 to 1933, by Trade and General Occupation Groups

= 1	Sto	res-wholes	ale and re	tail	Yards—lumber, coal, and scrap				
Year	Wage earners	Book- keepers, stenog- raphers, and office clerks	Sales- people (not travel- ing)	All employees	Wage earners	Book- keepers, stenog- raphers, and office clerks	Sales- people (not travel- ing)	All employees	
1929	\$1, 258 1, 216 1, 217 1, 077 986	\$1, 310 1, 392 1, 274 1, 115 1, 017	\$1, 155 1, 124 1, 068 925 841	\$1, 215 1, 204 1, 156 1, 011 918	\$1, 274 1, 418 1, 053 852 766	\$1,576 1,552 1,343 1,183 1,046	00000	\$1,376 1,484 1,160 950 842	
-ring (LV blow)	Retail d	lelivery—m	ilk, ice, an	nd water	Tard full	12 47	1411		
1929	1, 860 1, 782 1, 628 1, 410 1, 254	93333	000000	1, 831 1, 752 1, 612 1, 400 1, 249					

¹ Not computed, owing to small number involved.

Table 26 shows, for each trade group, indexes of average number of persons employed and total and average annual wage and salary payments. The base used is the year 1926. In wholesale and retail stores the indexes for wage earners and for the clerical group were lower in 1933 than in 1932 for each of the three items—average number employed, total payments, and average annual payments. For salespeople the 1933 index of employment was above and the indexes of total and average annual payments were below those of 1932.

Table 26.—Indexes of Number Employed and Wage and Salary Payments in Wholesale and Retail Trade in Ohio, 1929 to 1933, by Trade and General Occupation Groups

[1926=100.0]

			8	tores—w	holesale a	and retai	1			
Year	Wage earners			raphe	Bookkeepers, stenog- raphers and office clerks			Salespeople (not traveling)		
	Num- ber Wage and salary payments		Num- ber	Wage and paym		Num- ber	Wage an paym			
	(average)	Total	Aver- age	(average)	Total	Aver- age	(average)	Total	Aver- age	
1929	101. 7 101. 2 99. 5 107. 9 103. 8 96. 2 101. 9 98. 1 96. 3 89. 9 76. 6 85. 2 86. 7 67. 6 78. 0	109. 2 107. 3 106. 6 111. 3 96. 9 92. 6 85. 1 71. 2 81. 3 62. 0	98. 3 104. 4 95. 6 83. 6 76. 3	127. 0 113. 3 112. 4 102. 1 109. 1	124. 0 107. 8 101. 5 79. 9 77. 6	97. 6 95. 0 90. 3 78. 2 71. 1				
	Stores—wholesale and retail—Continued			Yards—lumber, coal, and scrap						
in his most	Al	ll employ	ees	W	age earne	ers	Book l raph clerk		stenog l office	
1929 1930 1931 1931 1932 1933	114. 2 110. 1 105. 7 94. 4 95. 6	111. 9 106. 9 98. 5 77. 0 70. 8	98. 0 97. 1 93. 2 81. 5 74. 0	93. 6 71. 6 70. 2 64. 7 68. 6	94. 1 80. 1 58. 3 43. 5 41. 4	100. 6 111. 9 83. 1 67. 2 60. 5	97. 9 100. 1 87. 1 77. 1 72. 2	97. 4 98. 1 73. 9 57. 6 47. 7	99. 6 98. 6 84. 8 74. 6 66. 1	
		s—lumbe erap—Con			Retail del	livery—n	nilk, ice,	and wat	er	
	ll employ	ees	V	Vage earn	ers	A	ll employ	rees		
1929 1930 1931 1932 1933	94. 6 76. 4 73. 8 67. 5 69. 5	95. 5 83. 1 62. 8 47. 0 43. 0	101. 0 108. 9 85. 1 69. 7 61. 8	114. 4 119. 3 146. 7 124. 0 127. 4		105. 5 101. 1 92. 3 80. 0 71. 1	109. 4 112. 8 139. 2 116. 9 120. 8	114.9	106. 101. 93. 81. 72.	

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103, 916 103, 502 101, 631 112, 423 109, 038 111, 651 111, 027 114, 161 119, 984

114, 161 119, 984 123, 024 123, 187 133, 718

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In considering data for this general industry group it should constantly be borne in mind that the Ohio Division of Labor Statistics does not request reports from establishments engaged in interstate transportation nor does the division request reports of activities conducted by governmental units.

Table 27 shows the average number of persons reported employed in transportation and public utilities, as far as this general industry group is covered by the Ohio Division of Labor Statistics. The average number of persons reported employed, in the three occupation groups combined, in transportation and public utilities in 1933 was 1.3 percent greater than in 1932 and 25.9 percent less than in 1929. The highest average during the 5 years, 1929 to 1933, was reported for 1930.

Table 27.—Average Number Reported Employed in Transportation and Public Utilities in Ohio, 1929 to 1933, by General Occupation Groups

		Average number of—				
Year	Estab- lishments	Wage earners	Book- keepers, stenog- raphers, and office clerks	Sales- people (not travel- ing)	Total	
1929	1, 674 1, 741 1, 776 1, 742 1, 692	66, 862 68, 358 54, 303 47, 021 48, 222	14, 297 14, 969 13, 231 12, 279 11, 838	978 1, 123 847 803 841	82, 13 84, 45 68, 38 60, 10 60, 90	

Total wage and salary payments in transportation and public utilities are shown in table 28 for each year from 1929 to 1933. Data for superintendents and managers are included in this table but not elsewhere. Total payments to each of the occupation groups except salespeople, decreased each year following 1930. Total payments to the three occupation groups combined (omitting superintendents and managers) in 1933 were \$2,176,388, or 2.9 percent less than in 1932, and \$44,944,029, or 38.3 percent less than in 1929. Total payments in 1930 exceeded the total for 1929.

Table 28.—Total Wage and Salary Payments in Transportation and Public Utilities in Ohio, 1929 to 1933, by General Occupation Groups

Year	Wage earners	Book- keepers, stencg- raphers, and office clerks	Sales- people (not traveling)	Subtotal	Superintendents and managers	Grand total
1929	\$93, 988, 809	\$21, 225, 289	\$2, 151, 021	\$117, 365, 119	\$7, 158, 501	\$124, 523, 624
1930	95, 848, 928	21, 871, 675	2, 241, 252	119, 961, 855	7, 746, 909	127, 708, 764
1931	72, 945, 697	19, 571, 037	1, 616, 839	94, 133, 573	7, 187, 687	101, 321, 264
1932	56, 357, 180	16, 740, 302	1, 490, 996	74, 597, 478	6, 085, 413	80, 682, 891
1933	55, 429, 975	15, 423, 637	1, 567, 478	72, 421, 090	5, 623, 952	78, 045, 045

Average annual wage and salary payments in transportation and public utilities are shown for each year from 1929 to 1933, in table 29. Considering the three occupation groups combined, the average annual payment decreased each year since 1929. The average annual payment in 1933 was \$52, or 4.2 percent, less than in 1932, and \$240, or 16.8 percent, less than in 1929.

Table 29.—Average Annual Wage and Salary Payments in Transportation and Public Utilities in Ohio, 1929 to 1933, by General Occupation Groups

Year	Wage earners	Bookkeep- ers, stenog- raphers, and office clerks	Salespeople (not traveling)	All employ-
1929	\$1, 406	\$1, 485	\$2, 199	\$1, 429
	1, 402	1, 461	1, 997	1, 420
	1, 343	1, 479	1, 909	1, 377
	1, 199	1, 363	1, 868	1, 241
	1, 149	1, 303	1, 864	1, 189

Table 30 shows for transportation and public utilities, indexes of average number of wage earners employed and total and average annual wage and salary payments to wage earners, each year from 1929 to 1933. The base used is the year 1926. The indexes of employment and of total payments declined each year since 1930, and of average annual payments each year since 1929.

Table 30.—Indexes of Number of Wage Earners Employed and Wage and Salary Payments to Wage Earners in Transportation and Public Utilities in Ohio, 1929 to 1933

	Wage earners	Wage and salary payments			
Year	(average number)	Total	Average		
1929	98. 8	100. 3	101. 4		
1930	101. 0	102. 3	101. 5		
1931	80. 2	77. 9	97. 6		
1932	69. 5	60. 1	86.		
	71. 3	59. 2	83.		

Employment and Wage and Salary Payments, by Industries

THE FOUR tables which follow present data by industries. In this study certain industries, in which (because reports are not requested by the Ohio Division of Labor Statistics from establishments engaged in interstate transportation and from activities conducted by Government units) comparatively few employees were reported in Ohio, were combined under "Transportation and public utilities, other." The industries so combined are: Airports; air transportation; gas, illuminating and heating; steam railroads; stockyards; waterworks; and transportation and public utilities, not otherwise classified.

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523, 620 708, 764 321, 260 682, 891 045, 042 Table 31 shows the number of establishments reporting in each industry each year from 1929 to 1933.

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Table 31.—Number of Establishments Reporting in Transportation and Public Utilities in Ohio, 1929 to 1933, by Industries

Year	Drayage and stor- age, in- cluding livery stables	Electric light and power	Electric rail- roads	Natural gas	Pipe lines (petro- leum)	Taxicab and bus service	Tele- graph and tele- phone, includ- ing mes- senger service	Transportation by water, including steve-doring	Trans- porta- tion and public utilities other
1929	842	112	38	35	11	155	373	32	77
	898	114	45	41	11	153	367	34	77
	949	121	33	41	12	150	357	32	88
	912	119	26	39	12	128	379	33	99
	890	115	25	40	12	120	371	31	8

Table 32 shows the average number of wage earners and of book-keepers, stenographers, and office clerks reported employed in each industry. The average number of wage earners employed in 1933 was greater than in 1932 in 6 of the 9 industries (considering the group "other" as an industry) and the average number of bookkeepers stenographers, and office clerks was greater in 4 industries.

Table 32.—Average Number Reported Employed in Transportation and Public Utilities in Ohio, 1929 to 1933, by Industries

	Drayage age, livery	and stor- including stables		ie light power	Electric	railroads
Year	Wage earners	Book- keepers, stenog- raphers, and office clerks	Wage earners	Book- keepers, stenog- raphers, and office clerks	Wage earners	Book- keepers, stenog- raphers, and office clerks
1929	9, 192 8, 851 8, 117 7, 395 7, 703	1, 948 2, 084 1, 875 1, 733 1, 723	11, 645 10, 487 9, 810 8, 500 8, 185	3, 764 3, 772 3, 599 3, 550 3, 527	1 9,069 12,964 6,705 5,538 9,246	1 982 1, 160 789 603 776
	Natu	ral gas	Pipe (petro	lines oleum)	Taxicab serv	
1929	6, 729 6, 545 4, 432 3, 972 4, 029	1, 455 1, 541 1, 571 1, 375 1, 371	1, 479 1, 181 1, 028 746 786	110 110 105 100 92	2, 913 3, 999 3, 595 3, 236 3, 252	266 709 254 341 389
to a part of the second second	phone,	h and tele- including iger serv-	Transpor water, stevede	rtation by including oring	Transpor public other	rtation and utilities
1929	23, 180 21, 869 18, 739 15, 802 13, 022	5, 447 5, 270 4, 727 4, 258 3, 627	1, 454 1, 297 1, 020 750 973	142 140 140 115 120	1, 201 1, 165 858 1, 082 1, 028	184 183 170 200 210

¹ In accord with tabulations of Ohio Division of Labor Statistics but possibly some error in reporting or tabulating. In 1928, the average number of wage earners was 14,355 and of bookkeepers, stenographers, and office clerks, 1,329.

The average annual wage and salary payments to wage earners and to bookkeepers, stenographers, and office clerks are shown in table 33. The average annual payment to wage earners in 1933 was less than in 1932 in 8 of the 9 industries.

Table 33.—Average Annual Wage and Salary Payments in Transportation and Public Utilities in Ohio, 1929 to 1933, by Industries

	age.	and stor- including stables		ic light power	Electric	railroads
Year	Wage earners	Book- keepers, stenog- raphers, and office clerks	Wage earners	Book- keepers, stenog- raphers, and office clerks	Wage earners	Book- keepers, stenog- raphers, and office clerks
1929	\$1, 487 1, 506 1, 365 1, 190 1, 075	\$1,648 1,681 1,608 1,392 1,290	\$1, 589 1, 580 1, 538 1, 413 1, 363	\$1,466 1,427 1,449 1,355 1,302	\$1, 589 1, 600 1, 498 1, 344 1, 237	\$1, 296 (1) 1, 126 1, 050 1, 297
	Natu	ral gas	Pipe (petr	e lines roleum)		and bus
1929	\$1, 338 1, 307 1, 358 1, 159 1, 131	\$1,700 1,443 1,384 1,429 1,374	\$1, 256 1, 501 1, 518 1, 595 1, 506	(2) (2) (2) (2) (2) (3)	\$1, 364 1, 072 1, 067 760 690	(2) (2) (2) (2) (2) (2)
	telep	aph and hone, in- g messen- vice	by w	ortation vater, in- gstevedor-	Transpo publi other	rtation and ic utilities,
1929	\$1, 195 1, 206 1, 194 1, 114 1, 080	1, 442 1, 520 1, 368	\$1, 931 1, 855 1, 627 1, 256 1, 241	(2) (2) (3)	\$1,710 1,551 1,500 1,213 1,265	(2)

Omitted, due to probable error in reporting or tabulating. Not computed, owing to small number involved.

Table 34 shows for wage earners in each industry (omitting the group "other") indexes of average number employed and total and average annual payments. The base used is the year 1926. The indexes of employment in 1933 were higher than in 1932 in 6 of the 8 industries. The indexes both of total and average annual payments in 1933 were lower than in 1932 in 6 industries.

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Table 34.—Indexes of Number Employed and Wage and Salary Payments to Wage Earners, in Transportation and Public Utilities in Ohio, 1929 to 1933, by Industries

Tabl

	Drayag cludin	e and stor	rage, in- stables	Electric	light and	d power	Electric railroads				
Year	Wage and salary payments (aver-		earners payments			Wage earners (aver-		nd salary nents	Wage earners (aver-	Wage and salary payments	
ρ.	age num- ber)	Total	Average	age num- ber)	Total	Average	age num- ber)	Total	Average		
1929	111. 2 107. 1 98. 2 89. 5 93. 2	111. 0 108. 2 90. 0 71. 4 67. 3	99. 8 101. 1 91. 6 79. 9 72. 1	108. 9 98. 1 91. 7 79. 5 76. 5	112. 9 101. 1 92. 0 73. 3 68. 1	103. 7 103. 1 100. 3 92. 2 88. 9	(1) 80. 5 41. 6 34. 4 57. 4	(1) 81, 1 39, 3 29, 1 44, 7	100. 0 100. 8 94. 3 84. 6 77. 9		
	Natural gas			Pipe li	ines (petr	oleum)	Taxical	and bus	service		
1929 1930 1931 1932 1933	119. 0 115. 7 78. 4 70. 2 71. 2	134. 7 128. 0 90. 0 68. 9 68. 2	113, 2 110, 6 114, 9 98, 1 95, 7	137, 6 109, 9 95, 6 69, 4 73, 1	126. 3 120. 4 106. 1 80. 9 80. 5	91. 7 109. 6 110. 9 116. 5 110. 0	114. 5 157. 2 141. 3 127. 2 127. 8	109. 8 118. 5 106. 0 67. 9 62. 0	95. 9 75. 4 75. (53. 48.)		
		ph and te g messeng	elephone, ger service		ortation b ling steve						
1929	110. 4 104. 2 89. 3 75. 3 62. 0	118. 1 112. 4 95. 4 75. 0 59. 9	107. 0 108. 0 106. 9 99. 7 96. 7	108. 8 97. 0 76. 3 56. 1 72. 8	113. 1 97. 0 66. 9 38. 0 48. 6	104. 0 100. 0 87. 7 67. 7 66. 9					

Omitted due to probable error in reporting or tabulating employment or total wage and salary payments.

Wage-Rate Changes in American Industries Manufacturing Industries

INFORMATION concerning general wage-rate changes occurring in reporting manufacturing establishments between June 15 and July 15, 1935, is given in table 1. This table covers 23,502 establishments employing 3,738,194 workers in July.

Increases in rates of pay were reported by 95 establishments in 26 industries. The average increase was 7.5 percent and the number of employees affected was 15,174. Two engine-turbine-tractor establishments reported increases averaging 5.9 percent and affecting 4,704 workers, 21 sawmills reported that they gave raises averaging 11 percent to 4,394 employees, and 1 agricultural implement factory reported a 6-percent increase given to 1,107 employees. Other industries which reported wage-rate increases affecting over 500 employees were: Foundries and machine shops (710), electric railroad repair shops (638), newspapers (597), electrical machinery (539), and stoves (532).

Decreases were reported by 24 establishments in 11 industries. These decreases averaged 13.2 percent and affected 1,700 workers.

Table 1.—Wage-Rate Changes in Manufacturing Industries During Month Ending July 15, 1935

Number of establish-Number of employees ments reportinghaving-Estab-Total lishnumber Industry ments of em-No Wage Wage Wage Wageployees No wagereportwage-rate rate derate rate rate rate inindechanges changes creases creases creases creases 1, 700 (1) All manufacturing industries.... 23, 501 3, 738, 194 23, 382 95 24 3, 721, 320 15, 174 Percentage of total.... . 1 iron and steel and their prod-ucts, not including machinery: Blast furnaces, steel works, and rolling mills..... 292 291, 295 292 291, 295 Bolts, nuts, washers, and 8, 242 9, 720 8, 242 9, 720 rivets ... 50 Cast-iron pipe. Cutlery(not including silver and plated cutlery) and edge tools.... 8, 315 6, 158 28, 379 8, 315 6, 158 28, 264 Forgings, iron and steel.... 72 Plumbers' supplies
Steam and hot-water heating apparatus and steam 105 115 ------16,088 16,074 16, 755 26, 507 16, 735 25, 975 20 207 Stoves. 209 2 532 Structural and ornamental 19, 198 18, 505 metal work ... 263 262 1 19, 193 Tin cans and other tinware. 18,505 Tools (not including edge tools, machine tools, files, and saws)..... 102 7,079 102 Wirework ... 10, 178 10, 178 Machinery, not including transportation equipment:
Agricultural implements... 76 30, 579 75 1 29, 472 1, 107 Agricultural implements.
Cash registers, adding machines, and calculating machines.
Electrical machinery, apparatus, and supplies.
Engines, turbines, tractors, and water wheels.
Foundry and machine-shop products. 15,706 25 25 15,706 391 126, 543 3 126,004 539 388 42, 631 2 37, 927 4, 704 82 80 1, 610 157 54 138 144, 330 24, 793 33, 874 15, 908 10, 556 1, 605 157 24, 793 33, 874 15, 908 Radios and phonographs... Textile machinery and parts Typewriters and parts..... 54 138 13 13 10,556 Transportation equipment: 27 342 8, 769 337, 837 27 8, 769 337, 837 342 9, 953 3, 682 33, 896 9,953 Locomotives Shipbuilding Railroad repair shops: Electric railroad 3, 682 33, 896 105 105 18, 580 82, 544 5 17,942 638 Steam railroad.... 533 533 82, 544 Nonferrous metals and their products: Aluminum manufactures... 6,905 33 33 6,905 Brass, bronze, and copper products.

Clocks and watches and time-recording devices.... 249 41, 546 249 41, 546 11, 736 8, 766 5, 035 8, 355 11,736 8, 766 5, 035 8, 355 191 191 Lighting equipment
Silverware and plated ware.
Smelting and refining—copper, lead, and zinc
Stamped and enameled 69 43 43 17,831 37 17, 831 37 ware 183 21,869 183 21,869 Lumber and allied products: Furniture.... 2 58, 940 47 564 58, 987 562 Lumber: Millwork. Sawmills. 22, 392 78, 291 3, 277 22, 559 82, 754 3, 277 167 492 500 520 543 Turpentine and rosin.....

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Table 1.—Wage-Rate Changes in Manufacturing Industries During Month Ending July 15, 1935—Continued

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	Estab-	Total		er of esta ts reporti		Numbe	r of employing—	оуеез
Industry	lish- ments report- ing	number of em- ployees	No wage- rate changes	Wage- rate in- creases	Wage- rate de- creases	No wage- rate changes	Wage- rate in- creases	Wage rate de- crease
Stone, clay, and glass products:								
Brick, tile, and terra cotta	532	24, 382	532			24, 382	******	
CementGlass	133 156	20, 148 50, 691	133 156			20, 148 50, 691	******	
Marble, granite, slate, and	200	00,001	100	********		50, 051		
other products	220	4, 898	220			4, 898		
Pottery	114	16, 069	114			16, 069	********	
Carpets and rugs	32	20, 555	32	******		20, 555		
Cotton goods	690	253, 122	689		1	253, 046		
Dyeing and finishing	113	9, 442	113	*******		9, 442		
textiles	170	38, 295	169	1		38, 290	5	
Hats, fur-felt	52	7, 152	52			7, 152	*******	
Knit goods Silk and rayon goods	634	131, 677	633		1	131, 583		
Woolen and worsted	255	49, 076	255			49, 076		
goods Wearing apparel:	488	141, 424	485	3		141, 159	265	*****
Clothing, men's Clothing, women's Corsets and allied gar-	1, 138 838	94, 746 36, 938	1, 138 838			94, 746 36, 938	******	
ments	39	6,911	39			6,911	*******	
Men's furnishings		8, 317	94	*******		8, 266		
Millinery	124 173	5, 501 28, 066	124 172		1	5, 501 27, 937	*******	
Boots and shoes	374	121, 183	371		. 3	120, 606	******	
Leather	1,040	34, 419 65, 152	1,036	1 4	1	34, 183 64, 957	76 195	
Beverages	488	29, 357	484	4		29, 333		
Butter	274	4, 138	274			4, 138		
Canning and preserving	734	81,562	729	3		81, 320	109	
ConfectioneryFlour.		29, 135 13, 096	294 313	1	1 0	28, 937 12, 929	42	
Ice cream	310	11,735	310		0	11, 735		
Slaughtering and meat						,,,,,,,		
packing	284	88, 300	284			88, 300	********	
Sugar, beetSugar refining, cane Tobacco manufactures:	67 15	4, 103 9, 939	61 15	6		3, 838 9, 939	265	
Chewing and smoking	37	7,906	977			7 000		
tobacco and snuff Cigars and cigarettes Paper and printing:	206	45, 780	37 206			7, 906 45, 780	*******	
Boxes, paper	705	33, 591	705			33, 591		
Paper and pulp Printing and publishing:	394	102, 492	393	1		102, 127	365	
Book and job	1,402	60, 551	1,390	7	5	60, 374	89	
Newspapers and peri-		101				1		1
odicals Chemicals and allied products, and petroleum refining:	615	51,854	606	9	*******	51, 257	597	
Other than petroleum refin-								1
ing: Chemicals	148	33, 226	147	1		33, 087	139	1
Cottonseed—oil, cake,	140	00, 220	14/	1		00,007	109	*****
and meal	101	2,786				2,786		
Druggists' preparations.	61	6, 962	61			6, 962	******	
ExplosivesFertilizers	316	2, 993 8, 617	27 316			2, 993 8, 617		
Paints and varnishes	570	21, 602				21, 602	*******	
Rayon and allied prod-								
ucts	28	46, 942				46, 942	******	
Soap Petroleum refining Rubber products:		14, 854 65, 328		1		14, 854 65, 317	11	
Rubber boots and shoes Rubber goods, other than	12	16, 518	12			16, 518		
boots, shoes, tires, and inner tubes	179	26, 376	179	6		26, 376		
Rubber tires and inner	110					20,070	*******	
tubes	40	54, 087	40			54, 067		

Trade, Public Utility, Mining, and Service Industries

In table 2 are presented wage-rate changes between June 15 and July 15, reported by cooperating establishments in 16 nonmanufacturing industries.

Increases in rates, averaging 2.9 percent and affecting 4,622 workers, were reported by 7 electric-railroad and motor-bus establishments, while 39 electric light and power establishments reported increases which averaged 5.5 percent and affected 3,052 employees. Twenty-nine wholesale trade establishments showed increases in rates which averaged 8.1 percent and affected 319 employees, and 69 retail trade stores indicated that 212 employees received increases averaging 8.7 percent. Other increases as well as decreases reported were negligible.

Table 2.—Wage-Rate Changes in Nonmanufacturing Industries During Month Ending July 15, 1935

Settom of the	Estab-	Total		er of esta ts reporti			r of empl aving—	oyees
Industrial group	re- port- ing	number of em- ployees	No wage- rate changes	Wage- rate in- creases	Wage- rate de- creases	No wage- rate changes	Wage- rate in- creases	Wage- rate de creases
nthracite mining	160	68, 683	160			68, 683		
Percentage of total	100.0	100.0	100.0			100, 0		
Situminous coal mining	1, 298	211, 598	1, 298			211, 598		
Percentage of total	100.0	100.0	100.0			100.0		
Metalliferous mining	202	22, 158	202			22, 158		
Percentage of total	100.0	100.0	100.0			100, 0	*******	
Quarrying and nonmetallic						7007		
mining	978	31, 268	977			31, 261		
Percentage of total	100.0	100.0	99.9		.1	100.0		(1)
Crude petroleum producing	380	33, 255	379	1	******	33, 236	19	
Percentage of total	100.0	100.0	99.7	.3		99.9	.1	
Telephone and telegraph	9, 359	261, 502	9, 359			261, 502		******
Percentage of total	100.0	100.0	100.0			100.0		
Electric light and power and		4.2.2.3.3.3	1					
manufactured gas	2, 691	246, 332	2,652	39		243, 280	3,052	
Percentage of total	100.0	100.0	98.6	1.4		98.8	1.2	
Electric-railroad and motor-bus	111111111111111111111111111111111111111	THE REAL PROPERTY.		1	1222			
operation and maintenance.	472	129, 122	465	7		124, 500	4, 622	
Percentage of total	100.0	100.0	98. 5	1.5		96. 4	3.6	
Wholesale trade	15, 086	268, 869	15, 053	29	4	268, 512	319	1
Percentage of total	100.0	100.0	99.8	.2	(1)	99. 9	.1	(1)
Retail trade	49, 853	739, 300	49,777	69	7	739, 047	212	
Percentage of total	100. 0	100.0	99.8	.1	(1)	100.0	(1)	(1)
Hotels	2, 279	135, 080	2, 277	1	1	135, 061	4	
Percentage of total	100.0	100.0	99.9	(1)	(1)	100.0	(1)	(1)
Laundries	1, 231	70, 610	1, 230	1		70, 600	10	
Percentage of total	100.0	100.0	99.9	.1		100.0	(1)	
Dyeing and cleaning	682	16, 832	680	1		16, 786	10	
Percentage of total	100.0	100.0	99.7	1 .1	1 .1	99.7	.1	
Banks	2, 635	99, 197	2.631	4		99, 111	86	
Percentage of total	100.0	100.0	99.8	.2			.1	
Brokerage	349	10, 392	349					
Percentage of total	100.0	100.0	100.0					
insurance	1.094	70, 339		3			12	
Percentage of total	100.0	100.0		.3			(1)	

¹ Less than Me of 1 percent.

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Establishment of Eight-Hour Working Day in the Dominican Republic ¹

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MAXIMUM working day of 8 hours and a working week of 48 hours were decreed for commercial and industrial establishments in the Dominican Republic by a law of June 21, 1935.2 Exception is made of inspectors, managers, persons holding positions of responsibility, persons engaged in agricultural or rural work or in small establishments in rural zones, and domestic servants. In case of accident or of urgent need the working day may be increased to 10 hours, but the working week must not exceed 58 hours, and the overtime must be compensated at the worker's option by a shorter working day in the following days, or pay for overtime at the same rate as for regular time. Except under conditions allowed by this law, on legal holidays the working day shall not exceed 4 hours, preferably in the morning. In case of continuous operations in which employees finishing their 8-hour shift are required to instruct those who replace them, 1 hour per day extra is allowed. In such cases the employees shall be entitled to an extra day of paid vacation per month, which shall be cumulative.

After 6 days of work every worker shall be entitled to an uninterrupted rest of 24 hours. Such rest must be granted on Sunday except upon written agreement to the contrary for reasons of general interest or because of the nature of the work; in these cases 1 rest of 24 hours or 2 rests of 12 hours each may be substituted on a day other than Sunday. Employers are required to post notices showing the time of beginning and quitting work and of the daily rest periods. Such rest periods shall not be less than 1½ hours after 4 hours' work or 2 hours after 5 hours' work; women employees with small children must be given two additional rests of one-half hour each, to enable them to nurse their babies. A record must be kept for each employee showing interruptions of work and their causes and hours lost, prolongations of work and the amount of remuneration due.

Employment of women in industrial work between 10 o'clock at night and 5 o'clock in the morning is prohibited. In enterprises which employ women, sufficient seats must be provided so that they may sit during rest periods. In employments where workers must remain in the establishments during mealtime, the management must provide a sufficient number of tables and chairs.

The employment of children of 14 years or less is strictly prohibited in industrial establishments and in maritime work. Employment of children is permitted in commercial enterprises provided such children fulfill their school duties, but no person of 18 years or less shall be employed in retail sale of intoxicating beverages.

¹ Data are from reports by James E. Brown, Jr., secretary of the American Legation at Santo Domingo, June 21 and July 17, 1935.

Dominican Republic, Gaceta Oficial, June 29, 1935, pp. 7-10.

Violations of this law are to be punished by a fine of 5 to 30 pesos gold ³ or imprisonment of 5 to 30 days, or both. Repetitions of the offense are punishable by double penalty.

Exceptions authorized by this law must be reported in writing to the State Departments of Agriculture and Labor in the month following the dates on which they occur.

Hours and Earnings in Various Industries in Germany in March 1934 and April 1935 4

AVERAGE weekly hours ranging from 38.54 to 44.92 and average net earnings of from 22.24 to 28.97 marks per week were disclosed by an official study of conditions in the woodworking and furniture and musical-instrument industries in March 1934. Hours of labor were nearly 2 percent longer than those worked in March 1931, but net weekly earnings had decreased 11.1 percent during the same time. Table 1 shows the hours of labor and the actual earnings in these industries.

Table 1.—Hours and Earnings in the Woodworking and Furniture and Musical-Instrument Industries in Germany, March 1934

[Mark (100 pfennigs) at par=23.8 cents; average exchange rate in March 1934=39.66 cents]

and resident and a second and a second	Num-	Hours	Earn-	Dedu from we hour	ages per	Net earnings per week Marks 27, 42 28, 68 28, 97 28, 03 24, 51	Employ- ers' con- tribu-
Industry and class of workers	ber of workers	per week	per hour	Taxes	Social insur- ance		tions to social in- surance per hour
Woodworking and furniture manufacture All workers	26, 622	44. 12	Pfen- nigs 74.8	Pfen- nigs 3.9	Pfen- nigs 7.0		Pfennigs 5.7
Skilled workers Time work Piecework Semiskilled workers Timework Piecework Unskilled workers, timework	6, 153 3, 545 2, 397	44. 01 44. 55 42. 79 44. 38 44. 11 44. 92 44. 58	78. 8 79. 2 78. 0 65. 0 64. 7 65. 7 59. 4	4. 3 4. 4 4. 1 2. 7 2. 6 2. 8 2. 4	7. 4 7. 5 7. 2 6. 1 6. 0 6. 2 5. 6	28. 97	6. 0 6. 0 5. 8 4. 9 4. 9 5. 0 4. 5
Musical-instrument manufacture All workers	1,098	41. 22	81. 2	4. 2	7.7	27. 65	6. 2
Skilled workers Timework Piecework. Semiskilled workers Timework Unskilled workers, timework	518 428 70 53	41, 22 42, 25 39, 97 38, 54 38, 88 43, 69	83. 4 80. 5 87. 1 68. 9 67. 9 66. 4	4. 4 4. 2 4. 6 2. 6 2. 6 3. 1	7. 9 7. 7 8. 1 6. 6 6. 6 6. 2	28. 41 28. 08 28. 81 22. 62 22. 41 23. 22	6. 4 6. 3 6. 6 5. 4 5. 3 5. 0

Bakery Industry

IN THE bakery industry hours of labor in March 1934 ranged from 45.28 to 50.68, and net weekly earnings ranged from 10.53 to 38.05 marks. Details are shown in table 2.

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Peso at par=\$1 in United States gold.
 Data are from Germany, Statistisches Reichsamt, Wirtschaft und Statistik, nos. 12, 13, and 14, 1935.

Table 2.—Average Hourly and Weekly Earnings in Confectionery, Baking, and Pastry Trades in Germany, March 1934

[Mark (100 pfennigs) at par=23.8 cents; average exchange rate in March 1934=39.66 cents]

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Data and the second	Num-		Earn- ings		ions per for—	Net	Employ. ers' con- tribu-
Class of workers, age group, and kind of work	ber of work- ers	Hours per week	per hour, with supple- ments	Taxes	Social insur- ance	earn- ings per week	tions to social in- surance per worker per hour
Skilled workers, male: Over 23 years: Timework. Piecework	2, 673 282	47. 16 45. 28	Pfen- nigs 84. 3 102. 6	Pfennigs 5.3 7.0	Pfennigs 7.8 9.2	Marks 33. 23 38. 05	Pfennigs 6.3 7.5
Unskilled workers, male: Over 23 years: Timework. Piecework Female workers:	2, 463 120	48. 10 50. 68	70. 0 81. 1	3. 9 5. 7	6. 5 7. 2	28, 23 33, 66	5.3 5.9
16-18 years: Timework Piecework	1, 619 395	46. 20 47. 17	26, 5 32, 9	.4	2.6 3.0	10. 53 13. 22	2.1 2.5
18-20 years: Timework Piecework Over 20 years:	2, 989 725	47. 48 48. 77	37. 4 45. 7	1.6 2.2	3. 6 4. 1	14. 73 18. 60	3.4
Timework	14, 785 5, 076	47. 11 47. 63	45. 6 54. 1	1.9 2.8	4.4	17. 87 21. 43	3.6

Printing Industry

AVERAGE weekly hours and earnings per hour and per week in the book and lithography branches of the printing industry in April 1935 are shown in table 3.

Table 3.—Hours and Earnings in the Printing Trades in Germany, April 1935
[Mark (100 pfennigs) at par=23.8 cents; average exchange rate in April 1935=40.26 cents]

	M	ale worke	ers	Technical workers							
Trade, and population of locality		Earning	gs per—		Males			Females			
locality	Hours per week	Hour	Week	Hours	Earning	gs per—	Hours	Earning	gs per—		
				week	Hour	Week	week	Hour	Week		
Book printing	46.6	Pfen- nigs 119.4	Marks 55. 63	47. 0	Pfen- nigs 98.3	Marks 46. 25	45. 9	Pfennigs 52.5	Marks 24.0		
Localities with population of— Over 1,000,000 500,000-1,000,000 200,000-500,000 100,000-200,000 25,000-100,000 10,000-25,000 10,000 and under	47. 7 46. 2 47. 0 46. 9 46. 4 45. 2 45. 2 45. 0	138. 7 119. 0 116. 3 110. 3 110. 4 102. 4 101. 8 93. 6	66. 19 54. 96 54. 62 51. 76 51. 21 46. 31 46. 00 42. 12	47. 4 46. 8 45. 9 47. 7 47. 4 46. 7 45. 0 46. 4	110. 0 92. 6 90. 2 79. 6 78. 2 73. 6 70. 4 65. 0	52, 18 43, 36 41, 41 38, 02 37, 06 34, 39 31, 68 30, 15	46. 0 44. 8 47. 0 47. 2 46. 4 46. 5 44. 6 45. 7	64. 7 51. 5 49. 2 46. 8 45. 5 46. 9 42. 3 37. 0	29. 7: 23. 0 23. 1: 22. 0 21. 1: 21. 8 18. 8 16. 9		
Lithography	46. 3	111.9	51.76	47. 2	77. 2	36. 43	45. 5	44. 2	20.1		
Localities with population of— Over 1,000,000	47. 6 46. 4 46. 8 44. 7 45. 5 46. 7 42. 4 46. 6	128. 0 118. 1 109. 5 106. 8 99. 5 108. 5 98. 2 93. 4	60. 77 54. 84 51. 24 47. 75 45. 30 50. 70 41. 66 43. 57	48. 4 47. 4 48. 0 45. 3 43. 3 47. 2 45. 6 49. 2	91. 3 83. 3 78. 4 68. 5 67. 8 69. 3 60. 3 65. 1	44. 25 39. 52 37. 66 31. 02 29. 36 32. 72 27. 49 32. 03	47. 5 45. 8 46. 2 45. 6 46. 4 44. 1 41. 2 46. 3	48. 7 49. 9 44. 1 42. 0 42. 7 42. 7 35. 9 39. 3	23.0 22.8 20.3 19.1 19.8 18.8 14.7		

Brewery Industry

Hours and earnings in the brewery industry in April 1935 are shown in table 4.

Table 4.—Hours and Earnings of Workers in the Brewery Industry in Germany,
April 1935

[Mark (100 pfennigs) at par = 23.8 cents; average exchange rate in April 1935=40.26 cents]

Skilled workers, male			nale	Unski	lled we	orkers,	male	Drivers (teamsters and truck drivers)				
Population of locality	Hours	earn	rage ings r—	ings Net		Average earnings per—		Net earn- ings	Hours	earr	rage lings r—	Net earn- ings
	Week Hour Week week	week	Hour	Week	per week	week	Hour	Week	week			
All localities	41. 6	Pfg. 104.8	Mk. 43. 64	Mk. 37. 28	41. 2	Pfg. 90.7	Mk. 37. 38	Mk. 32. 27	41.6	Pfg. 106. 8	Mk. 44. 39	Mk. 38. 58
Localities with population of— Over 1,000,000 500,000-1,000,000 100,000-200,000 50,000-100,000 10,000-25,000 10,000-25,000 10,000 and less	39. 8 41. 6 41. 8 41. 1 42. 6 42. 6 41. 9 42. 1		44. 48 44. 97 43. 78	39. 49 37. 57 38. 35 37. 57 37. 10 35. 99 36. 60 34. 14	39. 9 41. 1 40. 8 41. 2 42. 6 41. 4 41. 5 41. 9	100. 8 92. 7 95. 6 93. 1 85. 9 84. 6 85. 9 78. 2	40. 17 38. 10 38. 98 38. 37 36. 63 35. 00 35. 67 32. 76	34. 10 32. 37 33. 68 33. 44 31. 91 30. 66 31. 28 28. 80	39. 8 40. 7 41. 4 42. 1 42. 8 43. 5 42. 4 43. 3	125. 5 105. 7 109. 6 104. 0 98. 8 95. 6 98. 4 92. 7	49. 90 43. 04 45. 42 43. 85 42. 30 41. 64 41. 70 40. 15	43. 56 36. 73 39. 49 38. 33 36. 99 36. 24 36. 56 34. 99

Wages and Cost of Production in State Coal Mines in Netherlands in 1934 ¹

NFAVORABLE conditions which confronted the Netherland State coal mines during the past several years were intensified during 1934. The four mines and the nitrogen plant, which occupy an area of 1,047 hectares (2,587 acres), were operated regularly throughout the entire period. Production of coal totaled 7,789,238 metric tons, of coke 2,062,380 tons, of briquets 358,044 tons, and of nitrogen 192,318 tons. The total production of 10,401,980 metric tons in 1934 was 557,515 tons, or 5.7 percent, more than in 1933.

The selling price per ton of coal, including gross profits of the nitrogen plant, etc., dropped from 6.11 florins ² in 1933 to 5.76 florins in 1934. The cost price per ton, including allowances for depreciation and interest, also declined from 6.11 florins in 1933 to 5.87 florins in 1934. The cost and selling prices per metric ton of coal in 1934 were 4 and 6 percent lower, respectively, than the year before and, in fact, were the lowest on record since 1918.

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Marks 24.08

29, 79 23, 06 23, 14 22, 09 21, 10 21, 83 18, 83 16, 90

16. 90 20. 11

23.09

22, 87 20, 37 19, 16 19, 85 18, 83 14, 79 18, 06

Data are from report by Halleck L. Rose, American vice consul at Amsterdam, June 19, 1935.

¹ Florin at par=40.2 cents; average exchange rate in 1934=67.4 cents.

The cost price in 1934 was 77.1 percent lower and the selling price 78.2 percent lower than in 1919, the first post-war year. The cost price included the following items:

0	1934 florins	1933 florins
General costs	0. 66	0.72
Social insurance		. 36
Miners' family allowance	. 15	. 17
Miners' wage		2. 52
Mining timber and other materials	77	. 77
Power and other expenses	. 65	. 64
Total	4. 98	5. 18

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The total number employed on December 31 in specified years was as follows:

1903	92	1927	20, 908
1908	955	1929	22, 091
1911	2, 380	1930	21, 819
1914	4, 500	1931	22, 291
1919	12, 274	1932	21, 358
1923	14, 994	1933	20, 685
1926	19, 854	1934	20, 267

Of the total number employed on December 31, 1934, 12,564 were underground workers, 6,807 surface workers, and 1,331 salaried employees; 17,885 were natives of the Netherlands and 2,382 were aliens.

Wages paid during 1934 averaged 5.20 florins per shift of 8 hours for underground and 4.08 florins for surface miners, or 4.78 florins for both classes—a decrease of 3 percent from 1933. The 1934 wages were the lowest since 1926. The following table shows the average wages per shift of 8 hours paid in the years 1929 to 1934:

Average Wages per 8-hour Shift in State Coal Mines of Netherlands, 1929 to 1934

Class	1929	1930	1931	1932	1933	1934
Average, all classes of workers.	Florins	Florins	Florins	Florins	Florins	Florins
	5. 50	5. 61	5. 43	5. 00	4, 86	4.78
Underground miners Surface miners	6, 01	6, 09	5. 87	5. 43	5. 26	5. 20
	4, 41	4, 60	4. 52	4. 20	4. 15	4. 08

EMPLOYMENT OFFICES

Operations of the United States Employment Service, August 1935

ORE than two and one-quarter million persons have been registered by offices of the United States Employment Service in the 3 months since registration for employment has been required of relief employables. The registration and classification of 782,027 persons during the month of August brought the 3-month volume of new registrations to a total of 2,264,446. In the 3 months preceding the order requiring universal registration for employment by relief clients, total new registrations numbered 959,740. Although the exact number of relief clients included in the latter 3 months' registration total is not yet known, it is estimated that the major portion of the increased number of applications received during the period was made up of previously unregistered relief employables. Relief clients also voluntarily had registered for employment in large numbers prior to the issuance late in May of the order requiring employment registration.

Total new applications received in August 1934, 1 year earlier, numbered 370,705. In the 3 months June, July, and August 1934,

1,022,019 new applications were received.

Effects of continued heavy new registration are evident in further increases in the total number of persons actively seeking work through the Employment Service. On August 31 the records of 8,234,933 active job seekers were in Employment Service occupational files available for work.

Nearly one-quarter of a million placements in gainful employment were made by public employment offices in August. Verified placements in 243,016 jobs were reported, the openings filled representing

all types of gainful work.

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Offices of the affiliated State employment services received 337,296 new applications (43.1 percent of the national total), reported an active file of 3,056,155 applicants (37.1 percent), and made 80,159 verified placements (33.0 percent). Offices of the National Reemployment Service received 444,731 new applications (56.9 percent of the national total), reported an active file of 5,178,778 job seekers (62.9 percent), and made 162,857 verified placements (67.0 percent).

During August, 33,664 previously unregistered war veterans were registered and classified by the Employment Service. Since July 1, 1933, 1,329,700 veterans have registered with the Service, a number equal to approximately 30 percent of the total number of veterans

living in the United States who served in the armed forces of the United States during the Spanish-American and World Wars. From this number of applicants, 1,278,000 veteran placements have been made. On August 31, 512,809 veterans were actively seeking jobs through public employment offices.

Table 1.—Operations of Offices of Combined State Employment and National Reemployment Services, August 1935

al exercise amenda	Place	ments		pplica- ons	Total a		Active	e file
State	August	Percent of change from July	August	Percent of change from July	August	Percent of change from July	August 31	Percent of change from July 31
United States	243, 016	2-6.5	782, 027	2-4.8	1, 444, 973	1-8.3	8, 234, 933	2+9.
AlabamaArizonaArizonaArkansas. CaliforniaColorado	1, 825 6, 464 20, 641	-2.8 -20.9 +13.8 +11.6 -13.9	13, 215 2, 205 7, 320 74, 585 6, 056	-38.5 -66.2 -36.2 +24.7 -19.8	29, 143 4, 391 16, 683 98, 919 10, 979	-45. 1 -52. 1 -32. 6 +12. 5 -25. 0	166, 315 41, 297 96, 002 234, 494 81, 400	+10. +2. -4. +28. +5.
Connecticut Delaware Florida Georgia Idaho	825 2, 133 6, 982	-12.4 -21.4 +9.1 +73.4 -2.4	7, 015 1, 455 17, 447 20, 995 1, 651	-3.2 -14.2 -4.8 -44.6 -6.6	13, 294 3, 213 34, 618 30, 510 4, 951	7 -9.3 -18.3 -32.0 -6.4	60, 707 14, 601 142, 831 281, 708 32, 766	+4. +7. +20. +6. +1.
Illinois Indiana Indiana Iowa Kansas Kentucky	7, 972 7, 184 5, 056	$\begin{array}{r} -3.3 \\ +16.0 \\ -21.0 \\ -34.6 \\ -3.0 \end{array}$	39, 566 16, 407 4, 897 8, 960 34, 387	+36.6 -59.5 +2.7 -4.8 +73.2	85, 490 25, 280 17, 463 16, 865 55, 759	+33.7 -63.7 +5.0 -16.3 +69.0	244, 281 227, 143 78, 353 173, 136 196, 874	+13. +4. +4. +36.
Louisiana Maine Maryland Massachusetts Michigan	898 2,043	-23.8 -46.4 +5.8 -18.9 +13.4	3, 544 4, 411 4, 445 25, 744 43, 334	-80.5 +33.7 -9.0 +120.4 +60.3	5, 187 8, 819 9, 049 38, 248 150, 010	-76.6 -14.6 -32.9 +50.4 +14.0	176, 303 32, 899 97, 059 255, 691 202, 136	+17. +4. +13. +22.
Minnesota Mississippi Missouri Montana Nebraska	3,005	-8.4 -27.7 -1.9 +11.8 -18.8	20, 081 14, 561 24, 773 7, 172 3, 687	+18.3 +12.6 -5.5 +122.4 +33.6	45, 878 27, 276 53, 988 14, 248 15, 969	-2.6 -9.6 2 +48.6 +46.6	124, 444 141, 599 265, 722 38, 602 64, 556	+15. +13. +11. +18. -1.
Nevada	900 3, 199 1, 740	+36.3 -54.7 -13.6 -15.1 2-19.5	1, 275 1, 618 18, 022 7, 207 90, 747	$+12.2$ -16.9 -53.4 $+96.9$ $^{2}+16.2$	2, 650 3, 353 27, 171 11, 401 132, 918	+9.7 -29.1 -47.1 +36.4 ³ +6.6	5, 891 28, 843 290, 278 49, 411 873, 853	-2. +6. +7. +21. 2+7.
North Carolina North Dakota Ohio Oklahoma Oregon	3, 848 12, 624 2, 894	+26.9 -3.2 -2.4 -25.0 -22.4	33, 839 3, 380 32, 306 15, 078 4, 321	+33.4 -25.2 -18.1 +2.9 -41.3	56, 105 10, 656 81, 046 42, 858 8, 947	+11.0 -11.7 -9.1 -38.4 -38.6	170, 107 35, 851 306, 463 157, 288 91, 158	+28 -1 +12 +21 +1
PennsylvaniaRhode IslandSouth CarolinaSouth DakotaTennessee	3, 603 3, 201	-29.1 -1.8 -13.3 -9.0 +7.1	53, 170 4, 957 8, 287 2, 625 17, 949	-24.3 +26.2 -37.5 -1.1 -1.0	124, 863 6, 760 15, 585 8, 772 22, 432	-8.0 -29.7 -6.4	158, 641 62, 833	+10 +6 +
Texas	3, 361 747 5, 447	-22.4 -8.5 -23.9 +7.0 +6.9	16, 837 3, 533 790 16, 985 11, 521	-47.0 -6.2 +2.6 +6.0 -3.4	10, 461 2, 116 28, 598	-38.9 -11.7 -27.2 -2.4 -7.0	16, 766 136, 637	+3 +6 +7 +14 +8
West Virginia Wisconsin Wyoming District of Columbia	8, 835	-9.0 3 +18.5 +8.4	1,864	-13.9	44, 599	+15.0 +3.7	108,766	+21

Includes new applications, reregistrations, and renewals.
 Based on revised July figure.

Table 2.—Operations of Offices of State Employment Services, August 1935

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Placer	nents	New ap		Total a		Active	file
State	August	Percent of change from July	August	Per- cent of change from July	August	Percent of change from July	Aug. 31	Percent of change from July 31
All States	80, 159	-3.6	337, 296	4 -3.3	597, 150	4 -0.7	3, 056, 155	4 +10.
Arizona	445	+1.8	1,077	-63, 2	1,510	-55.9	14, 417	+6.
California	13, 004	+21.0	63, 991	+34.0	80, 512	+30. 2	166, 970	+43.
Colorado	674	-24.7	2, 083	-5.8	2, 901	-15.7	34, 201	+2.
Connecticut	2, 258	-12.3	5, 048	-15.7	9, 850	-6.1	42, 548	+4.
Delaware	825	-21.4	1, 455	-14.2	3, 213	-9.3	14, 601	+7.
[llinois	7, 517	+5, 2	27, 486	+41.3	50, 148	+39.5	133, 186	+21.
Indiana	5, 460	+8.4	9, 695	-60.4	15, 630	-63.7	119,068	+5.
lowa .	3, 303	-21.4	3, 301	-5.3	9, 838	-5,6	45, 859	-2.
Kansas (not affiliated)	1, 108	-39. 2	4, 731	+35, 1	7,013	+1.3	42,722	+13.
Louisiana	1, 467	-23.8	3, 544	-80.5	5, 187	-76.6	176, 303	+.
Massachusetts	2, 383	-5.2	9,804	+47.1	17, 313	+33.9	101, 183	+13.
Minnesota		-13.8	12, 825	+8.1	23, 669	-5.3	55, 248	+26.
Missouri	2, 425	+4.5	14,443	+17.2	32, 136	+21.2	79, 603	+32.
Nevada		+48.2	917	+17.0	1,665	+10.0	3, 883	-5.
New Hampshire	211	+36.1	831	+3.6	1, 543	-24.7	13, 190	+9.
New Jersey	2, 582	-10.8	15, 438	-57.1	22, 148	-52.1	241, 016	+7.
New Mexico	851	+92.5	2, 493	+91.3	4, 562	+37.0	24, 797	+16.
New York	7,992	1 -8.2	73, 839	2+62.4	108, 929	$ ^{2}+30.7$	537, 871	2+9.
Ohio	6, 214	-12.7	21, 873	-20.8	53, 397	-10.7	159, 344	+11.
Oklahoma	790	-20.0	3,777	-16.4	7, 684	-32.8	26, 217	+25.
Oregon	2, 485	-8.1	2, 386	-53.3	4,857	-44.9	67, 498	+2.
Pennsylvania		-16.0	37, 673	-20.0	93, 570	+19.7	781, 472	+7.
Vermont		(3)	790	(3)	2, 116	(3)	16, 766	(3)
Virginia	617	+39.3	1, 688	+67.1	3, 211	+116.2	15, 453	+23.
West Virginia		+55.8	1, 635	-20.4	3, 831	-3.6	26, 648	+9.
Wisconsin		-14.2	9, 688	+20.4	22, 725	+4.9	59, 704	+17.
Wyoming	598	+16.3	902	-22.1	1,746	-11.4	5, 588	+8.
District of Columbia	1,722	+8.4	3, 883	-41.2	6, 246	-37.4	50, 799	+2.

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Includes new applications, reregistrations, and renewals.
 Based on revised July figure.
 August first month operating as S. E. S.
 Computed from comparable reports only.

Table 3.—Operations of Offices of National Reemployment Service, August 1935

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	Placer	ments	New aj		Total a		Active	file
State	August	Percent of change from July	August	Percent of change from July	August	Percent of change from July	Aug. 31	Perce of chan from July
All States	162, 857	4 - 7. 7	444, 731	4 -5.9	847, 823	4 -12.9	5, 178, 778	4+
Mabama	2,862	-2.8	13, 215	-38.5	29, 143	-45. 1	166, 315	+10
Arizona	1, 380	-26.2	1, 128	-68.7	2, 881	-49.8	26, 880	-
rkansas	6, 464	+13.8	7, 320	-36. 2	16, 683	-32.6	96,002	-
California	7, 637	-1.5	10, 594	-11.9	18, 407	-29.5	67, 524	+
olorado	2, 072	-9.6	3, 973	-25.6	8, 078	-27. 9	47, 199	1
Connecticut	694	-12.5	1.007	150 0	2 444	-10 1	10 150	
lorida.			1,967	+56. 2	3, 444	+19.1	18, 159	+
norgio	2, 133	+9.1	17, 447	-4.8	34, 618	-18.3	142, 831	+2
eorgia	6, 982	+73.4	20,995	-44.6	30, 510	-32.0	281, 708	1
laho	2, 559	-2.4	1, 651	-6.6	4, 951	-6.4	32, 766	+
llinois	4, 882	-14.1	12, 080	+27.1	35, 342	+26.3	111, 095	+
ndiana	2, 512	+36.7	6, 712	-58.1	9, 650	-63.5	108, 075	+
owa	3, 881	-20.7	1, 596	+24.4	7, 625	+22.7	32, 494	1 +
ansas	3, 948	-33.2	4, 229	-28.4	9, 852	-25.4	130, 414	1 +
Centucky	2, 008	-3.0	34, 387	+73.2	55, 759	+69.0	196, 874	1 +3
Iaine	898	-46.4	4, 411	+33.7	8, 819	-14.6	32, 899	+1
faryland	2, 043	+5.8	4, 445	-9.0	9, 049	-32.9	97, 059	+
Iassachusetts	1, 241	-36.6	15,940	+218.0	20, 935	+67.4	154, 508	+
Iichigan	2 200							
finnesete	3, 369	+13.4	43, 334	+60.3	50, 010	+14.0	202, 136	1+2
finnesota	8, 668 3, 005	$ \begin{array}{r r} -5.6 \\ -27.7 \end{array} $	7, 256 14, 561	+42.1 +12.6	22, 209 27, 276	+.3 -9.6	69. 196 141, 599	+
								1
Aissouri	8, 308	-3.6	10, 330	+25.6	21,852	-20.8	186, 119	1 +
Montana	5, 143	+11.8	7, 172	+122.4	14, 248	+48.6	38, 602	1 +1
Vebraska	5, 889	-18.8	3, 687	+33.6	15, 969	+46.6	64, 556	-
Nevada	562	+21.6	358	+1.7	985	+9.3	2,008	+
New Hampshire	689	-62.4	787	-31.3	1, 810	-32.4	15, 653	+
New Jersey	617	-23.6	2, 584	-3.0	5, 023	-1.7	49, 262	1 4
lew Mexico	889	-44.7	4, 714	+100.0	6, 839	+36.0	24, 614	+
New York	5, 783	2 -31.2	16,908	-48.1	23, 989	2 -42.0	335, 982	2 4
North Carolina.		+26.9	33,839	+33. 4	56, 105	+11.0	170, 107	+
North Dakota		-3. 2	3, 380	-25. 2	10, 656	-11.7	35, 851	-
Ohio	6, 410	+10. 2	10 422	-11.8	27, 649	-5.7	147, 119	+
Oklahoma			10, 433	+11.5		-39. 5		
		-26.7	11, 301		35, 174		131, 071	+
Oregon	2, 101	-34.4	1,935	-13.9	4, 090	-29.1	23, 660	
Pennsylvania Rhode Island		-40.1	15, 497 4, 957	$\begin{array}{r} -33.0 \\ +26.2 \end{array}$	31, 293 6, 760	-14.8 -8.0	473, 584 52, 183	1
				1		1		1
outh Carolina		-13.3		-37.5	15, 585	-29.7	158, 641	1
outh Dakota		-9.0	2, 625	-1.1	8, 772	-6.4	62, 833	
ennessee		+7.1	17,949	-1.0	22, 432	-13.3	247, 591	1
exas		-22.4	16, 837	-47.0	37, 092	-38.9	298, 607	1
Jtah Vermont	3, 361	-8.5	3, 533	-6.2	10, 461	-11.7	43, 371	-
	1							
/irginia	4, 830	+3.9	15, 297	+1.9	25, 387	-8.7	121, 184	+
Washington	4, 567	+6.9	11, 521	-3.4	19, 056	-7.0	181, 394	
West Virginia.	2, 192	-19.3	6, 319	-18.1	16, 514	+0.8	104, 126	
Visconsin	4, 056		6, 278	+89.6	21,874	+27.8	49, 062	1 +
Vyoming	1, 602		962	-4.4	2,967	+15.2	5, 865	

Includes new applications, reregistrations, and renewals.
 Based on revised July figure.
 Operating as S. E. S. Aug. 1.
 Computed from comparable reports only.

Table 4.—Veterans' Activities of Offices of Combined State Employment and National Reemployment Services, August 1935

	Placen	nents	New app	lications	Active	e file
State	August	Percent of change from July	August	Percent of change from July	Aug. 31	Percent of change from July 31
United States	27, 022	1 -7.7	33, 664	1 -6.2	512, 809	1 +6.7
Alabama	297 227 492 2,771 263	-26.5 -26.8 -2.0 +6.0 -38.3	374 106 269 6, 966 263	$\begin{array}{r} -46.5 \\ -71.0 \\ -22.0 \\ +33.9 \\ +9.6 \end{array}$	7, 975 2, 352 5, 505 23, 359 5, 858	+4.6 -2.4 -8.2 +28.2 +2.3
Connecticut Delaware Florida Jeorgia daho	234 86 194 458 198	$ \begin{array}{r} +2.2 \\ +17.8 \\ +2.6 \\ +33.9 \\ -2.0 \end{array} $	351 58 426 445 88	+1.7 -3.3 -21.5 -40.2 -12.9	4, 702 843 7, 768 11, 222 1, 453	$ \begin{array}{r} +6.4 \\ -2.9 \\ +7.1 \\ +3.1 \\ -10.6 \end{array} $
llinois ndiana owa Xansas Kentucky	1, 185 1, 147 980 719 432	+5. 1 +19. 9 -13. 7 -24. 1 +3. 8	2, 434 684 211 298 709	+16. 2 -60. 8 +5. 5 -28. 4 +16. 0	21, 362 14, 624 5, 465 9, 660 12, 876	+9.6 1 +3.3 +4.1 +13.4
ouisiana	204 95 248 340 506	-20, 3 -40, 3 +, 8 -17, 3 +30, 1	172 222 212 1, 366 2, 220	$ \begin{array}{r} -81.2 \\ +53.1 \\ -13.1 \\ +151.1 \\ +25.8 \end{array} $	11, 980 2, 585 6, 011 17, 756 13, 833	+. 5 +8. 5 +1. 8 +12. 9 +16. 3
Minnesota	1, 092 198 1, 241 446 518	-19.3 -35.1 -11.0 -15.5 -18.0	973 172 1, 276 246 145	+54. 9 -41. 5 -3. 5 +95. 2 +21. 8	8, 974 6, 834 15, 882 2, 302 4, 375	+12.4 +2.6 +8.5 +12.1 -5.8
Nevada New Hampshire New Jersey New Mexico. New York	274	+55.0 -52.9 -32.3 $+5.6$ $1-21.8$	67 75 979 228 2,375	$+26.4$ -39.5 -58.8 $+11.8$ $^{1}+12.1$	308 2, 195 22, 540 3, 196 57, 322	+14.6 +3.9 +5.8 -10.6
North Carolina North Dakota Ohio Oklahoma Oregon	285 1, 161	+2.5 -1.7 -25.5 -33.3 +1.5	595 115 1, 222 533 278	+15. 1 -17. 9 -33. 9 +14. 4 -46. 8	7, 307 1, 486 21, 923 16, 255 7, 087	+11. -3. +7. +4.
Pennsylvania Rhode Island South Carolina South Dakota Tennessee		1 -9. 2 +5. 6 -6. 3 -9. 1 -15. 1	2, 410 154 214 96 389	$\begin{array}{c} -16.6 \\ +27.3 \\ -29.4 \\ -0 \\ -48.4 \end{array}$	57, 823 3, 049 6, 938 3, 114 13, 362	1 +7.1 +6. +4. -3. +2.
Texas	38	-7.3 -21.6 -43.3 1-16.4 3	41 478	-37. 3 -32. 6 +57. 7 -2. 0 -27. 4	2,848 560 7,228	+8. +8.
West Virginia Wisconsin Wyoming District of Columbia	1, 205 210	$ \begin{array}{r} -24.9 \\ +25.1 \\ +15.4 \\ +22.5 \end{array} $	861 104	+222.5 -7.1	9, 024 927	+17. +9.

¹ Based on revised July figure.

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-3, 5 20, 4 -6, 5 -1, 7 -5, 0

-4. 2 -1. 3 -1. 7 36. 9 17. 5

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-4. 9 18. 1 -1. 6 -6. 0 -5. 0

-6. 5 27. 5 -4. 1 28. 0 -1. 5

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Analysis of Employment Service Activities During June 1935

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TABULATED reports of 604,023 new applications of the total of 660,773 received in June, and of 238,583 placements of the month's total of 248,211, indicate that men formed 72.7 percent of the new applicants and received 86.7 percent of placements, while women made up 27.3 percent of the new applicants and received 13.3 percent of the placements. More than half of all placements were in regular jobs—those expected to continue for more than 1 month. Male placements were classified as 57.7 percent regular and 42.3 percent temporary, while jobs filled by women were classified as 54.2 percent regular and 45.8 percent temporary. Employment Service registrations during June were abnormally high as a result of the large-scale registration of relief employables. The June total of 660,773 new applications compares to an average volume of 315,000 new applications per month for the previous 15 months.

Detailed tabulated reports are complete for all parts of the United States except the State of New York. Tabulated reports for this State will be available at a later date.

Industrial Classification of New Applicants and All Persons Placed

DETAILED tabulations of the industrial background of the men who registered with public employment offices in June show that nearly one-third had last been regularly employed in agriculture, forestry, fishing, or extraction of minerals, 31.4 percent reporting their last employment in this field. The tabulations upon which these figures are based are complete for the country with the sole exception of the State of New York for which detailed reports are not yet available. Manufacturing industries were reported by the second largest group of male applicants, 22.9 percent falling in this group. In order of rank the other major industrial groups were professional and commercial service and distribution, 14.6 percent; building and construction, 12.9 percent; public utilities and transportation, 6.8 percent; domestic and personal service, hotels and institutions, 6.1 percent; and Governmental service (including all types of local governmental employment except relief work), 5.3 percent. In addition, 94,634 men reported no classifiable work experience.

Placements among men were 69.3 percent in building and construction work, 9.7 percent in agriculture, forestry, fishing, and extraction of minerals, 4.6 percent in manufacturing, 4.6 percent in domestic and personal service, hotels and institutions, 4.5 percent in Governmental service, 3.3 percent in professional and commercial service and distribution, and the remainder in public utilities and transporta-

tion and in miscellaneous fields. The predominance of building and construction work reflects employment on public works enterprises.

The largest group of new woman applicants registered in June, for whom detailed reports are available, reported their work experience in the group domestic and personal service, hotels and institutions; 55.8 percent of the woman applicants reporting this classification. Manufacturing was reported as the background of 16.7 percent of the woman applicants, and professional and commercial service and distribution, of 15.1 percent. Small numbers of women reported former employment in the industrial fields predominantly staffed by men. Placements of women were made in domestic and personal service, hotels and institutions, professional and commercial service and distribution (sales), and manufacturing, in the order named. Smaller numbers of women were also placed in the other industrial groups.

The accompanying charts portray the main industrial groups in which male and female applicants were formerly employed and in which placements were made.

Age Distribution of New Applicants and Persons Placed

The large rise in the number of new applicants during June resulting from the wholesale registration of relief employables, was accompanied by a decided increase in the average age of both male and female applicants. The median age of male new applicants in June was 33.1 years, as compared with an average of 31.6 for the 6 preceding months. The median age of female new applicants in June was 30, which compares with the figure of 27.3 for the 6 preceding months. These averages indicate a higher average age among the previously unregistered relief recipients than among persons ordinarily applying to the employment offices. It is possible that a larger proportion of the younger relief recipients may have filed their applications before the issuance of the order for general registration of all employable relief recipients.

The median age of all men placed by the public employment offices reached a new low of 33.1 years in June. The corresponding figure for last December was 33.9, and the average has been uniformly dropping since that time.

No significant change has taken place in the age distribution of the women placed during the 7 months for which tabulations have been made public. The median for June is 27.6 years.

The median ages of persons receiving regular jobs (those expected to last more than 1 month) are uniformly lower than those for persons temporarily placed. This differential amounts to only about a year for the male group, but for the female group is regularly between 5 and 7 years.

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INDUSTRIAL CLASSIFICATION OF NEW APPLICANTS
AND ALL PERSONS PLACED DURING JUNE 1935
Forty seven States and District of Columbia*

MEN

NEW APPLICANTS

ALL PLACEMENTS





AGRICULTURE, FORESTRY, FISHING, MINING



BUILDING AND CONSTRUCTION













INDUSTRIAL CLASSIFICATION OF NEW APPLICANTS
AND ALL PERSONS PLACED DURING JUNE 1935
Forty seven States and District of Columbia *

WOMEN

NEW APPLICANTS

ALL PLACEMENTS



AGRICULTURE, FORESTRY, FISHING, MINING





PROFESSIONAL AND COMMERCIAL SERVICE AND DISTRIBUTION



DOMESTIC AND PERSONAL SERVICE HOTELS INSTITUTIONS



PUBLIC UTILITIES AND TRANSPORTATION



REGULAR

NEW YORK STATE NOT INCLUDED

EACH COMPLETE FIGURE REPRESENTS 5,000

AGE OF NEW APPLICANTS AND ALL PERSONS PLACED DURING JUNE 1935, 47 STATES AND D. C.*

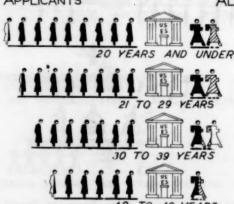
MEN NEW APPLICANTS ALL PLACEMENTS REGULAR TEMPORARY ZITO 29 YEARS



WOMEN

NEW APPLICANTS

ALL PLACEMENTS







REGULAR TEMPORARY

NEW YORK STATE NOT INCLUDED

EACH COMPLETE FIGURE REPRESENTS 5,000

JUNE 1935, 47 STATES AND D. C.*

MEN

WOMEN









6 MONTHS OR LESS OF UNEMPLOYMENT











NEW YORK STATE NOT INCLUDED

EACH COMPLETE FIGURE REPRESENTS 5,000

The age group 21–29 years consistently shows the highest number of new applicants and of persons placed, both for men and women. During June, 25.2 percent of the new applicants and 31 percent of the persons placed fell in this age group.

The distribution of new applicants and all placements by age groups

in June is illustrated by the chart on page 1054.

Length of Unemployment of New Applicants Registered During June 1935

The greater length of unemployment of relief employables than of nonrelief registrants is reflected in the increased proportion of new registrants in June reporting more than 4 years of unemployment, and in the increase in the median length of unemployment of appli-

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cants with previous work experience.

During June, when registration by relief employables was heavy, 11.5 percent of all new applicants reported over 4 years of continuous unemployment. During the 4 months, January through April, when relief clients constituted but a minor portion of Employment Service new applicants, only 7 percent of the job seekers reported unemployment exceeding 4 years in duration. The median length of unemployment of male applicants with classifiable work experience, during June was 9.3 months, while during the first 4 months of the present year 4.7 months was the median length of continuous unemployment. For women the corresponding record was 8.5 months in June and 4.6 for the 4-month period. In these reports, work on relief projects was not considered as gainful employment.

The effect of heavy registrations by recent students at the conclusion of the school year is also marked in June. Recent students constituted 8.3 percent of all new applicants in June compared to 4.3

percent in May.

The chart of length of unemployment (p. 1055) shows male and female applicants registered in June, classified by the length of unemployment of those with work experience, and the previous status of applicants who had no record of gainful employment.

TREND OF EMPLOYMENT AND PAY ROLLS

Summary of Employment Reports for August 1935

Comparison of August 1935 with July 1935 and August 1934

A SUMMARY of the reported data regarding employment in August 1935 is presented in the following four tables. Employment and pay-roll indexes, per capita weekly earnings, average hours worked per week, and average hourly earnings, as well as percentage changes from July 1935 and August 1934, are shown for manufacturing and for the nonmanufacturing groups insofar as the information is available.

The principal changes shown in these tables are briefly as follows: Factory employment and pay rolls rose 2.8 percent and 6.6 percent, respectively. This means that approximately 185,000 workers were added to factory pay rolls and that weekly wage disbursements increased by approximately \$8,700,000. The gain in employment has been exceeded in August in only 2 of the preceding 16 years (1922 and 1933) and in pay rolls in only one instance (1933).

Of the 90 manufacturing industries surveyed, 66 showed more employees on their rolls in August than in July and 72 reported larger pay rolls. Among the manufacturing industries in which pronounced gains in employment were shown from July to August were beet sugar (63.3 percent), millinery (36.2 percent), canning and preserving (30.5 percent), women's clothing (28.2 percent), cotton-seed oil-cake-meal (27.6 percent), radios (15.6 percent), rubber boots and shoes (12.9 percent), fur-felt hats (11.6 percent), and sawmills (7.8 percent). Employment in the machine-tool industry showed a gain of 3.3 percent, and steel works, rolling mills, and blast furnaces increased the number of workers by 2.8 percent and their weekly wage bill by 17.4 percent. Among the 24 industries which showed declines in employment were cement (6.4 percent) and automobiles (5.5 percent).

In nonmanufacturing 11 of the 17 industries surveyed reported gains in employment and 8 showed larger pay rolls. In the aggregate,

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there were approximately 30,000 fewer workers on the pay rolls of these 17 nonmanufacturing industries and \$900,000 less in weekly wages.

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Employment during August in the various services of the Federal Government showed a gain of 13.2 percent over the preceding month. Pay rolls which were in excess of \$171,000,000 were 6.4 percent larger than in July. A substantial part of the gain in employment may be attributed to the Works Program for which the first monthly statistics showed over 143,000 workers employed. Approximately 113,000 of this number were working on projects operated by the Works Progress Administration; the remainder were employed by the various Federal agencies receiving allotments from the Works Progress fund.

Pronounced gains in employment of the month were registered in construction projects financed by direct governmental appropriations and in emergency conservation work. Increases also occurred in the executive, military, and legislative services of the Federal Government.

The most marked decrease in employment during August was in the emergency-work program. Small losses were shown in the judicial service, in construction projects financed by the Reconstruction Finance Corporation, and in construction projects financed by the Public Works Administration.

Private employment.—Table 1 shows employment and pay-roll indexes and per capita weekly earnings in August 1935 for all manufacturing industries combined, for various nonmanufacturing industries, and for class I steam railroads, with percentage changes over the month and year intervals, except in the few cases referred to in footnotes, for which certain items cannot be computed. Table 2 shows for the same industries as in table 1, so far as data are available, average hours worked per week and average hourly earnings, together with percentage changes over the month and year intervals.

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Table 1.—Employment, Pay Rolls, and Earnings in All Manufacturing Industries Combined and in Nonmanufacturing Industries, August 1935 (Preliminary Figures)

	Emp	oloymen	t	P	ay roll	i garaj		eapita warnings	
Industry	Index		Percentage change from—		Perce	ntage from-	Aver- age in		
	August 1935	July 1935	Au gust 1934	August 1935	July 1935	Au- gust 1934	Au- gust 1935	July 1935	Au- gust 1934
	(1923-25 =100)			(1923-25 =100)					
All manufacturing industries combined	81. 7 56. 6	+2.8 7	+2.8 -2.1	69. 6 (²)	+6.6	+11.9	\$20. 85 (2)	+3.8	+9.0
The state of the s	(1929 = 100)			(1929 == 100)				ulling	
Coal mining: Anthracite Bituminous Metalliferous mining	38. 7 73. 4 46. 3	-21.7 +4.8 +2.5	-21.8 -4.8 +8.4	28, 3 45, 8 33, 4	-24.6 +27.6 +7.4	-28.7 -9.1 +23.7	21, 28 15, 97 22, 32	-3.8 +21.8 +4.7	-8.9 -4.6 +14.1
Quarrying and nonmetallic mining	51. 0 78. 7	+.2 +2.5	-6.8 -4.8	36. 3 60. 7	+5.6 +2.6	+6.8 8	17. 58 27. 91	+5.3 +.1	+14.5 +4.2
Telephone and telegraph Electric light and power	70.5	+.3	7	75. 5	2	+2.0	28. 38	6	+2.8
and manufactured gas Electric-railroad and mo- tor-bus operation and	85. 7	+1.1	+.1	81. 5	-(s)	+2.0	29.77	-1.1	+1.9
maintenance	71. 2	4	-2.2	63, 3	2	+.8	28. 30	+.2	+3.0
Wholesale	82. 8 77. 7	+.9 -1.8	+.4	64. 8 59. 2	+.3 -2.1	+3.3 +1.4	26. 93 20. 41	6 2	+3.0 +1.5
ing	81.7	-3.4	+.6	69. 0	-3.8	+3.1	17. 79	4	+2.5
Other than general merchandising Hotels (cash payments only) Laundries Dyeing and cleaning Brokerage	(2)	-1.4 +.5 3 -2.8 +.3 +3.4	4 +.9 +.6 +1.0 +1.7 -3.9	57. 2 62. 0 69. 2 58. 2	-2.4	+1.1 +3.0 +3.9 +2.6 +1.3 -2.4	13. 26 15. 56 17. 98 31. 77	3 5 -2.1 -2.7 +(3) +1.1	+1.5 +2.0 +3.3 +1.7 4 +1.6
Insurance	(2) (2) (2)	2 +3. 6	+1.1 +7.6	(2)	-5.0 +4.4		35. 76	-4.8 +.8	+.4

Preliminary source: Interstate Commerce Commission.
 Not available.
 Less than 1/10 of 1 percent.

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Table 2.—Hours and Earnings in August 1935 in All Manufacturing Industries Combined and in Nonmanufacturing Industries (Preliminary Figures)

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	Averag	e hours per wee	worked k	Average hourly earn. ings		
Industry	Average in	cha	entage nge 1 m—	Aver-		
	August 1935	July 1935	August 1934	August 1935	July 1935	Augus 1934
All manufacturing industries combined	36. 6	+4.0	+7.3	Cents 56. 8	-0.2	+1.
Coal mining: Anthracite Bituminous Metalliferous mining. Quarrying and nonmetallic mining. Crude-petroleum producing Public utilities:	21. 8 38. 0 37. 5	-10.1 +19.8 +4.1 +5.3 +.6	$ \begin{array}{r} -11.8 \\ -2.7 \\ +7.7 \\ +9.7 \\ -1.2 \end{array} $	83. 2 73. 7 58. 0 47. 0 76. 7	+.8 .0 +.3 6 4	+1. +7. +3.
Telephone and telegraph Electric light and power and manufactured gas Electric-railroad and motor-bus operation and maintenance.	38. 6 39. 4 44. 8	+1.3 +.5 +.2	3 +1.8 +1.1	76. 0 74. 9 61. 9	-1.4 -1.6	+2.
Trade: Wholesale Retail General merchandising Other than general merchandising. Hotels Laundries Dyeing and cleaning. Banks. Brokerage Insurance	41. 5 42. 1 38. 4 43. 1 47. 8 41. 3 41. 4 (3)	+.2 +.5 +.3 +.5 -1.2 -7 (3) (3)	+2.1 +5.3 +2.2 +5.7 +1.7 +4.4 -2.7 (3)	64. 5 51. 6 48. 2 52. 5 27. 5 36. 3 43. 1 (3)	2 -1.1 4 6 6 5 -1.8 (3) (3)	+

Percentage changes over year computed from indexes.
 The additional value of board, room, and tips cannot be computed.

Public employment.—Employment created by the Federal Government is of two general classes: (1) Employment either in the executive, judicial, legislative, or military services, and on various construction projects financed by the Federal Government; and (2) employment on relief work, where the work itself and the system of payment is of an emergency-relief character. Data for these two types of Federal employment are shown separately in tables 3 and 4.

Table 3.—Employment and Pay Rolls in Various Services of the United States Government, August 1935 (Preliminary Figures)

	Emple	oyment	Per-	Pay	Per-	
Kind of service	August 1935	July 1935	centage change	August 1935	July 1935	centag
Total services	1, 630, 183	1, 440, 087	+13.2	\$171, 659, 653	\$161, 314, 734	+6.
Executive service Judicial service Legislative service	² 770, 336 1, 732 5, 147	1 731, 539 1, 766 5, 014	+5.3 -1.9 +2.7	115, 789, 800 470, 939 1, 204, 204	111, 110, 248 473, 044 1, 181, 349	+4.
Military service	269, 459	261, 067	+3.2	20, 846, 275	20, 689, 446	+
P. W. A. Construction projects financed by R. F. C.	394, 509	405, 332	-2.7 -1.7	25, 292, 656	24, 968, 785 1, 001, 653	+1.
Construction projects financed by direct governmental appropriations The Works Program.	9, 415 36, 491 143, 094	9, 581 25, 788	+41.5	1, 020, 208 2, 694, 822 4, 340, 749	1, 890, 209	+42

Revised.
 24,174 employees of the Works Progress Administration included for which pay roll is not available.

able 4.—Employment and Pay Rolls on Relief Work of Various Federal Agencies, August 1935 (Preliminary Figures)

Group	Emplo	yment	Per-	Pay	Per-	
Group	August 1935	July 1935	centage	August 1935	July 1935	centage
n groups	1,989,976	2,409,375	-17.4	\$63,992,155	\$75,211,411	-14.9
mergency Work Program mergency Conservation Work	1,401,394 588,582	1,928,789 480,586	$ \begin{array}{r} -27.3 \\ +22.5 \end{array} $	37,823,716 26, 168, 439	53, 136, 834 22, 074, 577	-28.8 +18.5

Coverage of Reports

Monthly reports on employment and pay rolls are now available for the following groups: (1) 90 manufacturing industries; (2) 17 nonmanufacturing industries, including building construction; (3) class I steam railroads; and (4) Federal services and agencies. The reports for the first two of these groups—manufacturing and nonmanufacturing—are based on sample surveys by the Bureau of Labor Statistics, but in practically all cases the samples are sufficiently large to be entirely representative. The figures on class I steam railroads are compiled by the Interstate Commerce Commission and include all employees. The data for the various Federal services and agencies also cover all employees on the pay rolls of such organizations.

In total, these four groups include a majority of the wage and salary workers in the United States. Unfortunately, however, information is not available for certain other large employment groups—notably, agricultural work, professional service, and domestic and personal service.

Employment and Pay Rolls, July 1935: Revised Figures

THIS article presents the detailed figures on volume of employment, as compiled by the Bureau of Labor Statistics for the month of July 1935. The tabular data are the same as those published in the Employment and Pay Rolls (formerly Trend of Employment) pamphlet for July except for certain minor revisions and corrections.

Industrial Employment

Manufacturing Industries

Taking the 3-year average, 1923-25, as 100, the Bureau of Labor Statistics index of factory employment and pay rolls for July stood at 79.5 and 65.3, respectively. Compared with the corresponding month of the preceding year, the employment index for July 1935 showed an increase of 1 percent and the current pay-rolls index a gain of 7.9 percent.

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+6.1 +2.2 +1.6 +.9 -.8 -.3 -1.1 -.5 -1.1 (3) (3) (2) (2)

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+4.2 -.4 +1.9 +.8 +1.3

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The most pronounced increase in employment from June to Julin the separate industries was a seasonal rise of 67.5 percent in the canning and preserving industry. A gain of 11.8 percent in the radiand phonograph industry was also seasonal. A number of industrie related to building construction showed employment gains. Among these were plumbers' supplies (9.8 percent), sawmills (9.7 percent millwork (6.9 percent), brick (9.5 percent), and the same plumbers' supplies (9.8 percent).

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The indexes of factory employment and pay rolls are computed from reports supplied by representative establishments in 90 manufacturing industries, the 3-year average, 1923-25, being taken as the base of 100. In July, reports were received from 23,501 establishments employing 3,738,194 workers whose earnings in 1 week ending nearest July 15 were \$75,228,168.

Per capita weekly earnings in all manufacturing industries combined were \$20.12 in July, a decrease of 1.6 percent in comparison with June.

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Some of the establishments that report employment and pay-roll tals do not report man-hours. Consequently, average hours and rerage hourly earnings are computed from data supplied by a smaller amber of establishments than are used in computing per capita eakly earnings and indexes of employment and pay rolls. Manur data are not published for any industry for which available

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The most pronounced increase in employment from June to July in the separate industries was a seasonal rise of 67.5 percent in the canning and preserving industry. A gain of 11.8 percent in the radio and phonograph industry was also seasonal. A number of industries related to building construction showed employment gains. these were plumbers' supplies (9.8 percent), sawmills (9.7 percent) millwork (6.9 percent), brick (2.5 percent), and structural metal work (1.7 percent). The agricultural implement industry, an indicator of farm purchasing power, continued to take on more workers, the gain from June to July being 5.5 percent, bringing the index for the industry to 116.7, the highest point since May 1930. The lowest point was 26.9 in October 1932. Compared with the corresponding month of last year, the employment index for the agricultural implement industry showed an increase of 68.4 percent. The machine-tool industry, which is a barometer of orders placed for power-driven, metal-cutting machinery, also continued to take on more workers, the increase in July being 4.6 percent. The expansion in this industry, which began in November of last year, brought the July employment index to 89.0, the highest since March 1931.

The most pronounced decline in employment in manufacturing industries in July (34.3 percent) was in the electric and steam carbuilding industry, and was due primarily to the completion of contracts and lack of new orders. Locomotive plants reported a drop of 29.8 percent in number of workers. Seasonal factors were primarily responsible for the declines in employment of 23.4 percent in millinery, 14.1 percent in fertilizers, 11.0 percent in silverware, 12.7 percent in women's clothing, 8.8 percent in men's furnishings, 8.0 percent in cutlery, and 5.5 percent in confectionery. The automobile industry reduced the number of workers on pay rolls 6.1 percent and weekly wage disbursements 8.3 percent. Blast furnaces, steel works, and rolling mills reported 1 percent fewer employees and a 7.7 percent lower weekly wage bill. The durable goods group of industries showed losses of 0.3 percent in employment and 3.5 percent in pay rolls, and the nondurable goods group reported gains of 0.1 percent in both items.

The indexes of factory employment and pay rolls are computed from reports supplied by representative establishments in 90 manufacturing industries, the 3-year average, 1923-25, being taken as the base or 100. In July, reports were received from 23,501 establishments employing 3,738,194 workers whose earnings in 1 week ending nearest July 15 were \$75,228,168.

Per capita weekly earnings in all manufacturing industries combined were \$20.12 in July, a decrease of 1.6 percent in comparison with June.

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Some of the establishments that report employment and pay-roll otals do not report man-hours. Consequently, average hours and verage hourly earnings are computed from data supplied by a smaller umber of establishments than are used in computing per capita reekly earnings and indexes of employment and pay rolls. Manour data are not published for any industry for which available aformation covers less than 20 percent of all employees in that adustry.

Indexes of employment and pay rolls, average hours worked per reek, average hourly earnings, and per capita weekly earnings in nanufacturing industries in July are presented in table 1. Percentge changes from June 1935 to July 1935 and from July 1934 to July

this year are also given in this table.

59.8 62.5 54.4

36.3 41.0 35.0

+1.0 +14.0

+1.0 +11.0 56.7 +1.0 +11.0 21.78 +4.0 +28.8 76.8 +6.6 +47.2 25.58

73.4

Foundry and machine-shop products

Table 1.- Employment, Pay Rolls, and Earnings in Manufacturing Industries, July 1935

	E	Employment	ent		Pay roll		Per cap	Per capita weekly earn- ings ¹	ly earn-	Avera	Average hours worked per week 1	worked	Avera	Average hourly earn- ings 1	/ earn-
Industry	Index July 1935	Perce	ercentage inge from—	Index July 1935	Percentage change from-	rtage from-	Aver- age in	Percentage change from	Percentage lange from—	Aver-	Percentage change from	Percentage lange from—	Aver- age in	Percentage change from	Percentage lange from—
of Ignited States of Ignition	average 1923-25 = 100)	June 1935	July 1934	(3-year average 1923-25 = 100)	June 1935	July 1934	July 1935	June 1935	July 1934	July 1935	June 1935	July 1934	July 1935	June 1935	July 1934
All industries.	79.5	-0.1	+1.0	65.3	-1.1	+7.9	\$20.12	-1.6	+6.8	35.2	-0.6	+5.1	Cents	-0.9	+1.5
Durable goods	8.8	+:-	+2.8	55.6	-3.5 +.1	+11.4	21.58	-3.3 +.1	++8.+	35.2	-2.2 +1.1	++6.1	8.5	-:-	+1.7
Durable goods															
Iron and steel and their products, not in-		7	+1.4	52.8	-6.4	+10.9	19.87	9.4	+9.5	32.7	7	**	61.1	1	+
Blast furnaces, steel works, and rolling mills. Bolts, nuts, washers, and rivets.	71.7	-2.3	-1.0	52.4	-7.7	+9.4	19.96	-3.4	+10.9	30.2	3.00	+10.2	58.0	+.2	1-2.4
Cast-iron pipe	_	+1.5	9	28.3	-2.2	+3.3	15.08	-3.6	14.1	30.4	-3.2	+3.5	49.0	4	4
lery) and edge tools.	71.2	œ -	15.6		9.6	+1.3		6.9	+7.1		-2.7	+3.0	55.1	+2.2	14.1
Hardware, emplies	40.0	1 00 00	7	, 6, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,	1.6.1	+15.8	19.16	- 60	+22.1	35.2	11:	+23.9	35.1	11.1	111
Steam and hot-water heating apparatus and		0 6	100		9 6			9 0	0.01	36. 1	0 0	9 6	0 0		9 9
Stoves	98.5	1 1	+13.4	71.8	13.	+27.1		12.0	+11.9	36.5			55.9	i ©	+3.8
Structural and ornamental metalwork.	100.0	++1-2-2-1	+.4	97.7	++3.6	5 + + +	20.53	+1.9	+2.5	34.9	+1.3	+2.5	52.3	+	+2.6
Tools (not including edge tools, machine tools, files, and saws)	62.3	-2.6	+6.1	55.1	5.7	+12.4	19.87	6.5	+6.4	37.0	-3.9	+-	33.00	0.0	+6.9
Machinery, not including transportation	110.0	-4.0	-0.7		ó	+10.7	20.10		+11.1	91.9	6.1	100+		+ 0	+11
equipment Agricultural implements	85.6 116.7	+1.7	+8.4	67. 5 135. 2	+6.1	+15.4	24.25	1+	+14.2	39.0	+1	++6.2	62.2	1+	+1.2
Cash registers, adding machines, and calculating machines.	102.7	+.3	-1.8	85.6	+1.5	30		+1.1	+1.0	39, 7	+.5	+1.1	69.8	+	-1.5
Electrical machinery, apparatus, and sup-	69.6	+(3)	+6.9	54. 7	-2.6	+0.8	21. 64	-2.5	+2.8	34.9	-1.1	+3.5	61.3	-1.1	1

Foundry and machine-shop products	73.4	+.0	+5.6		+.9	+11.		(3)	+5.	36.3	1.3	+3	69.	0	+1.8	ı
Machine tools.	89.0	+4.6	+28.8		+20.6	+47.		+	+14.	41.0	++	+111	202		+1-1	
Radios and phonographs.	185.0	+11.8	× 0 ·		+11.8	i		10	100	26.00		100	58	16	126	
Textile machinery and parts	500	00	11.1		100	9		11	- 1	36.3	+ 00	- 1	57	+	+2.1	
Typewriters and parts.		-	-		-	13		- 6	+14	22.6	-2.0	+10	74	+	+	
Transportation equipment.	420 6	-	118 1		+	4		-2.9	8	39.7	-3.2	-	62	-2	-1.3	
Automobiles	100.		1507		000	+21		-23	+18	33.6	-2.3	+13	75	+	+3.9	
Automobiles	21.2	24.2	42 9		-30 0	-44		-86	-2	30.9	-5.5	-7	9	-3	+3.4	
Cars, electric and steam-rannond	90.0	200	43.7		-35 3	5		-7.9	-	32. 5	-6.1	-14	2	-25	+2.3	
LOCOMOLI VES.	25.0	120	130		170	19		- 7	+	32.6	+ 6	7	73	-1-	+.4	_
Palleand sepain shore	2	- 1	- 1	4	1		25.64	-5.0	+2.7	37.6	-9.1	-4.1	67.5		+6.6	
Plantin railroad	66.2	9	-1.7		-	ε		+.2	+1	43.5	5	1	91	+	+1.6	
Steam railroad	52.6	9	-8.8		-5.9	-6.		-5.3	+3	37.1	-5.4	1	8	i _	+7.2	
Nonferrous metals and their products	78.0	-1.9	+6.7		8.4-	_		-2.9	7	36.0	-2.4	+	2	1:	+2.7	
Aluminum manufactures	63.2	-2.1	-6.4		-9.7	+16.		-7.8	+24	34.7	-8.7	+ 36	5	+	5.	
Brass, bronze, and copper products.	77.4	-1.9	+3.2		-4.1	+5		-2.2	+5	36.7	-2.4	+	25	÷	+1.2	
Clocks and watches and time-recording																-
devices	80.0	0.1			-7.0	+3	_		+0				-			
Inwelry	6.99	+2.1			-3.4	+2			15							
Lighting agrichment	69.0	+	+11.8	58.9	-1.4	+19.7	20.26	-1.5	1-2-1	36.4	3	1	200	-1.8	+1.9	
Silverware and plated ware	65.3	-11.0	+6.5		-15.7	+10			+				-			•
Smelting and refining—copper, lead, and												•		1.10		
Zinc	80.3	-1.9				+25		+1.8	+0			1:		+1.0	-	
Stamped and enameled ware	80.8	-2.1				+3		20 ·	+			1			F	
Lumber and allied products	51.9	+6.1	+0.+	 	+9.5	+21.2	16.45		_	87.8	130	+11.0		-	17	
Furniture	69. 1	+3.0				+23		-3.1	+10.			+11.4		•	1	
Lumber	44 0	1.60	1 167		184	148		+1.4	+22			+24.4	44.8	+.7	+.4	
Millwork	300	+0.0	+		+11.6	+11		+1.8	+111	36.8	-1.6	+10.9		+3.5	3	
Turnanting and rosin	88.9	0	+1.6		-4.1	+14		-4.1	+12							
Stone, clay, and glass products	7.7	-1.8	+		T	+7		2	+					-	1	
	32.9	+2.5	+3.8		7.6	+18		+2.0	+ 14					+ 1	14	
Cement	57.5	-4.2	-1.5		15.4	1		1.0	i		1011	12.0	28.0	1	+3.2	
0.1888	92.7	97.0	1		10-	+10		0.00						-1.7	+.7	
Marble, granite, slate, and other products	30.0	1 + 00 00	12.5	41.5	1-9.6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17.36	-3.7	+12.1	33.3	(E)	+7.4		6	+9.1	
TOO T																
See footnotes at end of table.																

-2.5 +9.8 21.64 -2.5 +2.8 34.9 -1.1 +3.5 61.3 -1.1

54.7 -2.5

+6.9

69.6 +(4)

Electrical machinery, apparatus, and supplies.

Table 1.—Employment, Pay Rolls, and Earnings in Manufacturing Industries, July 1935-Continued

	En	Employment	ıt		Pay roll		Per cap	Per capita weekly earn- ings t	y earn-	Average	Average hours worked per week 1	vorked	Avera	Average hourly earn- ings 1	- earn-
Industry	Index July 1935	Percentage change from	rtage from—	Index July 1935	Percentage change from-	ntage from-	Aver-	Percentage change from	Percentage lange from—	Aver-	Percentage change from-	ntage from—	Aver-	Percentage change from-	ntage from—
The possible to see a tonic	(3-year average 1923-27 = 100)	June 1935	July 1934	(3-year sverage 1923-25 -100)	June 1935	July 1934	age in July 1935	June 1935	July 1934	July 1935	June 1935	July 1934	July 1935	June 1935	July 1934
Tartiles and their products Fabrics Carpets and rugs Cotton goods Cotton small wares Cotton small wares Cotton small wares Cotton small wares Dyeing and finishing textiles Hats, fur-felt Knit goods Silk and rayon goods Woolen and worsted goods Wearing apparel Clothing, men's Millinery Shirts and ollars Shirts and ollars Leather and its manufactures Baring Bacta and its manufactures Correctionery Flour Ice cream Slaughter Slaughtering and meat packing Sugar, beet	22.22.25.02.25.22.22.22.22.22.22.22.22.22.22.22.22	11+11+1+1+1+11+1++++++++++++++++++++++	++1+++++++++++++++++++++++++++++++++++	\$5.55.56.88.88.85.55.69.95.69.89.99.95.75.89.75.75.75.75.75.75.75.75.75.75.75.75.75.	44444464844444444444444444444444444444	+++++++++++++++++++++++++++++++++++++++	244264444844446444464444444444444444444	- 1 4 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1	++++++++++++++++++++++++++++++++++++++	**************************************	+ 1 + + + + + + + + + + + + + + + + + +	++++++++++++++++++++++++++++++++++++++	######################################	4. €. 1.4.1.4.1.1. 4.1	++++++++++++++++++++++++++++++++++++++

36.6 36.9 14.8 36.0

16.75 14.63 +2.3 -2.8 +2.9 +2.9

Chewing and smoking tobacco and snuff.... 66. 8

Chewing and smoking tobacco and snuff	65.8 56.8	111	11-	45.1	1-120	1+1	16. 75	+++ +++	+10.4	35.6	1+1 888	+1.0	40.1	11.4	4++
Boxes, Daber	63	+			100	+3.2		-1.0	+2.6		-1.1	4	50.4	+.2	+1.4
Paper and pulp.	108.9				-2.6	+10.4		12.0	+6.3		-24	+3.4	53. 1	+.2	+3.0
Printing and publishing:	9 A A				+ 3		- 20								-
Newspapers and periodicals	97.0	-2.0	+	86.3	-4.5	+.6	32.03	-2.6	+ 3	36. 1	-1.6	9	89. 2	-1	7.8
Themicals and allied products, and petro-															
Jeum refining	8 901	1.1	+1.4	95. 4	++	+7.6		+	+6.1		+	+2.5			1
Other than petroleum refining	105.7	7	+1.8	93.8	+.1	+83		+.7	+6.4			+2.9			1000
Chemicals	108.0	+ 80	-2.9	101.6	+3.6	+62		+50	+000			14.00			+44
Cottonseed-oil, cake, and meal	46.7	+7.9	-14.8	48.3	+15.0	-10.1		+6.6	+2.5		+7.7	+0.4			1:
Druggists' preparations.	96.1	7	+1.4	92.3	-1.5	+7.2		1	+40			7			100
Explosives	86.1	4	-6.4	70.0	-3.7	-1.4		100	+2.5			12.6			900
Pertilizers	0.89	-14.1	-4.2	62.0	-10.5	+9.0		+	+13.6			+10.3			+3.
F	108.6	-3.5	+7.3	88.9	-5.4	+12.8		-20	+5.5			+53			+
Ravon and allied products	327.9	+.6	+10.5	240.2	1	+15.1		1.7	+4.2			+1.6			+100
Soan	99.3	2	+1.6	94.4	-1.5	+12.0		-1.3	+10.3			-4.2			+10.3
Petroleum refining	111.2	+.5	4.1	100.8	+1.2	+2.0	27.80	+-7	+2.5	34. 5	+,	+:	81.3	+.0	0
ubber products	77.3	-3.1	-7.9	61.3	100	-1.0		12.0	+7.5			-			10
Rubber boots and shoes.	45.3	-3.6	-16.2	41.7	1.2	-15.6		+3.5	1			0.7-			10.0
Rubber goods, other than boots, shoes, tires,					•	0		*	1190		4	1191		4	
and inner tubes	117.6	57	13.1	2.5	12.0	100	10.11	1	17.00	36		-	0.40		17.6
Rubber tires and inner tubes	70.3	-3.5	oi		ó	ó		2.4	+0+		7.6-	+-+		•	

+10.3

1.2.0

62.7

(3) +1.5 +18.1 +4.2

40.7 36.3 37.6

+1.4 -1.8 +24.0 -3.6 +6.4

+,3 -17.9 23.09 +7.0 +7.1 22.14 -1.2 +10.3 21.65

75.0 43.6 72.7

-1.2 -22.3 +8.9 -13.4 +2.6 +3.9

80.4 47.2 85.5

Slaughtering and meat packing Sugar, beet Sugar, refining, cane

1 Per capita weekly earnings are computed from figures furnished by all reporting establishments. Percentage changes over year computed from indexes.
2 Computed from available man-hour data—all reporting establishments do not furnish man-hours. Percentage changes over year computed from indexes. The average hours and average hourly earnings in the groups and in "All industries" are weighted.
No change.
Less than 1/4 of 1 percent.

Indexes and Estimates of Factory Employment and Pay Rolls

INDEXES of employment and pay rolls for all manufacturing industries combined, for the durable-goods group, and for the non-durable-goods group, by months from January 1934 to July 1935, inclusive, are given in table 2. Estimates of employment and weekly pay rolls for all manufacturing industries combined are also given.

The diagram on page 1069 indicates the trend of factory employ. ment and pay rolls from January 1919 to July 1935.

Table 2.—Indexes and Estimates of Employment and Pay Rolls in All Manufacturing Industries Combined and Indexes of Employment and Pay Rolls in the Durable- and Nondurable-Goods Groups 1

-	Indexes	based	on	3-year	average.	1923-25=100.0	11

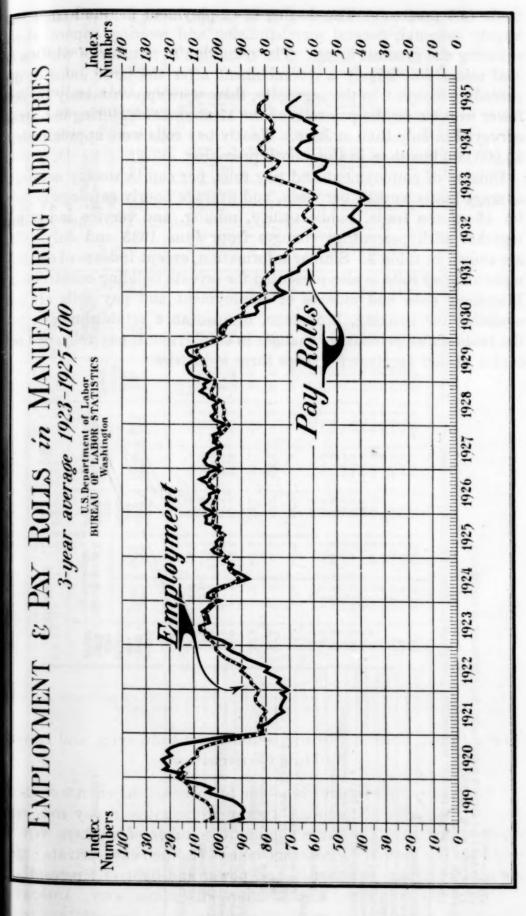
	- 9				Inde	exes		
Year and month	Estimated number of wage earners		All ma turing tries con	indus-	Durable		Nonda goods	
			Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1934			15		P T T			
January	6, 146, 000	\$109, 806, 000	73.3	54.0	59.8	41.6	87.9	69.
February	6, 514, 200	123, 395, 000	77.7	60.6	63. 5	47.9	93.0	76.
March	6, 770, 100	131, 852, 000	80.8	64.8	67.1	52.8	95. 4	80.
April	6, 906, 100	136, 962, 000	82.4	67.3	70.0	57.4	95, 8	80.
May	6, 912, 600	136, 575, 000	82.5	67.1	71.5	58.6	94.3	78
June		132, 040, 000	81.1	64. 9	70.8	56. 9	92.3	75
July		123, 011, 000	78.7	60. 5	67.4	49. 9	90.8	73.
August		126, 603, 000	79.5	62. 2	66.1	50.0	94.0	77.
September	6, 351, 900	118, 089, 000	75.8	58.0	64. 2	45, 5	88, 2	74
October	6, 569, 500	124, 138, 000	78.4	61.0	62.8	46. 4	95. 1	79.
November	6, 435, 000	121, 085, 000	76.8	59. 5	62. 2	46. 1	92.4	76
December	6, 536, 100	128, 593, 000	78.0	63. 2	64. 3	50. 4	92,7	79.
Average	6, 600, 100	126, 012, 000	78.8	61. 9	65. 8	50.3	92.7	76.
1935			- 70					
January	6, 595, 700	130, 503, 000	78.7	64.1	66.1	52.5	92.3	79
February			81. 2	69. 1	69.3	58.6	94.1	82
March			82.4	70.7	70.8	60. 5	94.8	81
April			82.4	70.8	71.6	61.8	94.0	82
May			81.1	68. 5	71.3	60.1	91.6	71
June			79.6	66. 4	69. 5	57.6	90.4	7
July			79. 5	65. 3	69. 3	55. 6	90. 5	

¹ Comparable indexes for earlier years will be found in the December 1934 and subsequent issues of this pamphlet, or the March 1935 and subsequent issues of the Monthly Labor Review.

Trade, Public Utility, Mining, and Service Industries, and Private Building Construction

INCREASED employment from June to July was shown in 9 of the 17 nonmanufacturing industries surveyed while gains in pay rolls were reported for 10. The largest gains in number of workers were in laundries (2.6 percent), brokerage houses (1.6 percent), private building construction (1.4 percent), and power and light (1.1 percent).

Among the 8 industries which showed declines were: Anthracite mining (13 percent), bituminous-coal mining (10.1 percent), and retail



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ndurable ds group

Pay rolls

904833802147 7 3180645

Private

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Table 5. Employment, Fay Rolls, Hours, and Earnings, July 1935

trade (3.7 percent). The decline in employment in retail trade was largely seasonal, general merchandising and wearing apparel stores suffering the greatest losses. The reduction in number of workers in coal mines was largely a retrenchment after the large gains of the preceding month. In the aggregate, there were approximately 147,000 fewer workers on the pay rolls of the 17 nonmanufacturing industries surveyed in July than in June. Weekly pay rolls were approximately \$5,000,000 less than in the month preceding.

Indexes of employment and pay rolls, per capita weekly earnings, average hours worked per week, and average hourly earnings in July for 13 of the trade, public utility, mining, and service industries, together with percentage changes from June 1935 and July 1934, are shown in table 3. Similar information, except indexes of employment and pay rolls, is also presented for private building construction. Man-hour data and indexes of employment and pay rolls are not available for banking, brokerage, or insurance establishments, but the table shows percentage changes in employment, pay rolls, and per capita weekly earnings for these three industries.

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Coal mining: Anthracite	Employment	Pa	Pay roll	- P	Per capita weekly earnings 1	weekly gs 1	Averag	Average hours worked per week 1	vorked	Average	A verage hourly earnings 1	rnings
Sage June July 1929 1935 1934 1935 1934 1934 1935 1935	Percentage change from—		Percentage change from-		-	Percentage change from—	Aver-	Percentage change from-	ntage from—	Aver-	Percentage change from-	ntage from—
tallic mining	June July 1935 1934		June Ju 1935 19	July 1935	June 1935	July 1934	July 1935	June 1935	July 1934	July 1935	June 1935	July 1934
tallic mining	46.4		1	\$22	48.8	9.	23.	-33.6	-1.2	Cents 82.3		1-
power and manufactured and motor-bus operation 70.3 +.1 -1.0 84.7 +1.14 6 71.54 -2.2 82.1 -(*)1 70.1 -3.7 +.1 82.1 -(*)1 70.1 -3.7 +.1 84.5 -6.8 +1.8 77.7 -2.73 77.7 -2.73 80.3 -1.21 81.7 -2.2 +1.5 81.7 -2.2 +1.5 81.7 -2.2 +1.5 81.7 -2.2 +1.5 81.7 -2.2 +1.5 81.7 -2.2 +1.5 81.7 -2.2 +1.5 81.7 -2.2 +1.5 81.7 -2.2 +1.5 81.7 -2.2 +1.5 81.7 -2.2 +1.5 81.7 -2.2 +1.5	70.0 -10.1 -9.1 -9.1 -9.1 -9.1 -9.1 -9.1 -9.1 -9		+1.7 +1.7 +1.5	+23.9 21.9 -1.7 16.5 -1.3 27.8	25.58 5.4.+.±	142.54	36.23.5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1441	74.68.7	+ 11 0004	++1+
and motor-bus operation 71.54 -2.2 and motor-bus operation 71.54 -2.2 and sing 82.1 -(1)1 79.1 -3.7 +.1 andising 84.5 -6.8 +1.8 forly 36.8 +1.8 forly 46.8 +1.6 forly 56.8 +1.6 forly 66.8 +1.8 forly 76.8 +1.8 forly 86.8 +1.8 forl	70.3 +.1 -1.0			88				-1.0	+.8	77.1		+7.8
and motor-bus operation 71.54 -2.2 63. 82.1 -(*)1 64. 82.1 -(*)1 64. 79.1 -3.7 +.1 60. 84.5 -6.8 +1.8 7.7 -2.73 58. 1 only) **	. 84.7 +1.14		+2.1 +	+.5 30.5	1.1+ 79	1 +.8	38.9	+.8	+1.7	78.7	+.3	+1
sg.1 -(1)1 64. nardising	71.54 -2.2	33.4	- 7	6 28.1	183	3 +1.6	44.8	4	9.	61.6	0.	+2.0
sandsing	79.1 -(1)1	949		25.2			44	++	11.1	65.7	11	+7
7ments only) *	dising 4.5 -6.8 +1.8	00 ==		27.			8,4	+1	++	48.8 53.0	+1	17
() +1.0 +1.6 (•)	80.3 -1.2 -1.2	-04		5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5				++1	14:1	27.4 36.6	1, 1, 1, 4, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,	1114
0.01	+1.0		+1.4	1.3 31.57 9.1 34.79	111	1+1	100 3	200	900	223	223	: : : : :
+1.4 +4.9	+.8 +1.9			25.				+2.0	+2.0	80.3	6.1	+3

¹ Per capita weekly earnings are computed from figures furnished by all reporting establishments. Average hours and average hourly earnings are computed from data furnished
 ¹ Less than Me of 1 percent.
 ¹ The additional value of board, room, and tips cannot be computed.
 ¹ Not available.

Indexes of Employment and Pay Rolls in Trade, Public-Utility, Mining, and Service Industries

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metallic mining

Metalliferous mining

INDEXES of employment and pay rolls in 13 trade, public utility mining, and service industries and 2 subdivisions under retail trade are shown by months in table 4 for the period, January 1934 to July 1935.

Table 4.—Indexes of Employment and Pay Rolls, January 1934 to July 1935

Bituminous-coal

mining

Anthracite mining

[12-month average, 1929=100.0]

						Allita	ning						ALI	io carri		
Month		ploy- ent	Pay	rolls		ploy- ent	Pay	rolls		ploy- ent	Pay	rolls		ploy- ent	Pay	rolls
	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935
Tannari	04.1	en n	79.0		77.0	00.0	** 2		20.0	44.0	05.4	20.1	20. 7	00.0	01.0	-
January February	64. 1 63. 2	62. 9 64. 4	73. 2 65. 8	57. 5 64. 3	75. 8 76. 1	80. 0	51. 3 54. 6	59. 6 66. 1	39. 6 40. 3	44.3	25. 4 26. 0	30. 1 29. 9	39. 7 38. 8	36. 9 37. 3	21.3	20.1
March	67. 5	51. 4	82.4	38. 9	77.8	81.6	58. 9	67. 5	39.8	45.0	25. 9	30. 9	42.0		21.0	22.
April	58. 2	52. 6	51.7	49. 9	72. 2									40.5	24.1	24.
Mon						74.3	51.4	45. 0	41.7	46.0	27. 2	31.8	48. 7	45. 3	29.9	28.
May	63.8	53. 5	64. 0	49. 5	76. 7	75. 3	54. 4	49. 1	40.8	44. 4	25. 6	31.4	54. 3	49.5	35.0	32.
June	57.5	56. 8	53. 3	66. 0	76. 7	77. 9	55. 1	64. 7	41.0	46. 0	26. 7	31.5	56. 6	50. 4	37.0	33,
July	53.6	49. 4	42. 3	37.5	77.0	70.0	49.7	35. 9	39. 9	45. 2	25. 1	31. 1	55. 6	50. 9	35.0	34.
August	49.5		39. 7		77.1		50.4		42.7		27.0		54. 7		34.0	
September	56. 9		47.0		78. 2		51.4		42.3		25. 9		53. 3		32.4	
October	58. 5		48. 3		79.3		57. 6		43. 3		28. 2		51.8		32.1	
November	60.7		51. 2		79.8		58. 3		43. 2		28. 5		49. 5		29.4	
December	61.6		52. 3		79.7		57.0		44. 4		29. 4		42. 1		23.6	
	-	-		-		-		-		-		-	40.0	-	-	-
			55. 9		77. 2		54. 2		41.6		26.7		48. 9		29.6	
Average.		ude-p				ephon	e and	tele-	po	etric ower s ctured	and m		tie	ctric-rate on ar	ous (opera
Average. Month	Cr		etrole		Tele		aph	tele-	fa Em	wer s	and m		m tie ns	otor-b	ous (open
	Cr	prod	etrole	rolls	Tele	graploy-	aph		Em m	ower s ctured	and m	rolls	m tie ns	ploy-	ous o	roll
Month	Em mo	ploy- ent	etrole ucing Pay	rolls	Em mo	ploy- ent	Pay	rolls	Em m	ploy- ent	Pay	rolls	Emmins	ploy-ent	Pay	roll
Month January	Em mo	ploy- ent 1935 74.9	Pay 1934 53. 0	rolls 1935 55. 5	Em mo	ploy- ent 1935 70. 5	Pay 1934 69.0	rolls	Em m 1934	ploy- ent 1935	Pay 1934 73. 8	rolls	Emmin 1934 70. 5	ploy- ent 1935	Pay 1934 59. 2	openaint
Month JanuaryFebruary	Em mo 1934 73. 2 72. 4	ploy- ent 1935 74. 9 74. 2	Pay 1934 53. 0 50. 5	1935 55. 5 54. 9	Teld Em 1934 70. 2 69. 8	ploy-ent 1935 70. 5 70. 0	Pay 1934 69.0 67.9	rolls 1935 73. 9 72. 9	Em m 1934 82. 2 81. 2	ploy- ent 1935 82. 7 82. 2	Pay 1934 73. 8 74. 4	rolls 1935 78.0 78.3	Emmin 1934	ploy- ent 1935	Pay 1934 59. 2 60. 1	roll
Month JanuaryFebruary	Em mo 1934 73. 2 72. 4 72. 8	ploy- ent 1935 74. 9 74. 2 74. 0	Pay 1934 53. 0 50. 5 52. 5	1935 55. 5 54. 9 56. 0	Tele Em mo 1934 70. 2 69. 8 70. 0	ploy- ent 1935 70. 5 70. 0 69. 8	Pay 1934 69.0 67.9 70.4	73. 9 72. 9 75. 3	Em m 1934 82. 2 81. 2 81. 7	ploy- ent 1935 82.7 82.2 82.2	Pay 1934 73.8 74.4 75.6	rolls 1935 78.0 78.3 79.4	Emmino 1934	ploy-ent 1935 71. 2 71. 0 71. 3	Pay 1934 59. 2 60. 1 62. 2	rol 19 62 63 63 63
Month January February March	Em mo 1934 73. 2 72. 4 72. 8 74. 0	prod ploy- ent 1935 74. 9 74. 2 74. 0 74. 9	Pay 1934 53. 0 50. 5 52. 5 53. 4	1935 55. 5 54. 9 56. 0 56. 7	Tele Em m 1934 70. 2 69. 8 70. 0 70. 2	ploy- ent 1935 70. 5 70. 0 69. 8 69. 7	Pay 1934 69. 0 67. 9 70. 4 68. 8	73. 9 72. 9 75. 3 73. 1	Em m 1934 82. 2 81. 2 81. 7 82. 4	ploy- ent 1935 82. 7 82. 2 82. 2 82. 6	Pay 1934 73.8 74.4 75.6 76.8	rolls 1935 78. 0 78. 3 79. 4 79. 0	Emmin 1934 70. 5 71. 0 71. 7 72. 2	ploy- ent 1935 71. 2 71. 0 71. 3 71. 4	Pay 1934 59. 2 60. 1 62. 2 62. 9	roll 199 62 63 63 63 63
Month January February March April	73. 2 72. 4 72. 4 74. 0 76. 7	prod ploy- ent 1935 74. 9 74. 2 74. 0 74. 9 76. 0	Pay 1934 53. 0 50. 5 52. 5 53. 4 56. 4	1935 55. 5 54. 9 56. 7 57. 8	Tele Em m 1934 70. 2 69. 8 70. 0 70. 2 70. 2	ploy- ent 1935 70. 5 70. 0 69. 8 69. 7 70. 0	Pay 1934 69. 0 67. 9 70. 4 68. 8 71. 4	73. 9 72. 9 75. 3 73. 1 73. 7	Em m 1934 82. 2 81. 2 81. 7 82. 4 83. 1	ploy- ent 1935 82.7 82.2 82.2 82.6 83.2	Pay 1934 73.8 74.4 75.6 76.8 77.6	rolls 1935 78.0 78.3 79.4 79.0 79.8	Emimo 1934 70. 5 71. 0 71. 7 72. 2 72. 6	ploy-ent 1935 71. 2 71. 0 71. 3 71. 4 71. 6	Pay 1934 59.2 60.1 62.2 62.9 63.0	roll 196 62 63 63 63 63 63
Month January February March April	Em mo 1934 73. 2 72. 4 72. 8 74. 0	prod ploy- ent 1935 74. 9 74. 2 74. 0 74. 9	Pay 1934 53. 0 50. 5 52. 5 53. 4 56. 9	1935 55. 5 54. 9 56. 0 56. 7 57. 8 58. 3	Tele Em m 1934 70. 2 69. 8 70. 0 70. 2	ploy- ent 1935 70. 5 70. 0 69. 8 69. 7 70. 0 70. 2	Pay 1934 69.0 67.9 70.4 68.8 71.4 71.3	73. 9 72. 9 75. 3 73. 1	Em m 1934 82. 2 81. 2 81. 7 82. 4	ploy- ent 1935 82. 7 82. 2 82. 2 82. 6	Pay 1934 73.8 74.4 75.6 76.8 77.8	rolls 1935 78. 0 78. 3 79. 4 79. 0	1934 70. 5 71. 0 71. 7 72. 2 72. 6 73. 2	ploy- ent 1935 71. 2 71. 0 71. 3 71. 4	Pay 1934 59. 2 60. 1 62. 2 62. 9	19 62 63 63 63 63 63 63 63 63 63 63 63 63 63
Month January February March April	Em me 1934 73. 2 72. 4 72. 8 74. 0 76. 7 80. 0 81. 6	prod ploy- ent 1935 74. 9 74. 2 74. 0 74. 9 76. 0	Pay 1934 53. 0 50. 5 52. 5 53. 4 56. 4	1935 55. 5 54. 9 56. 7 57. 8	Teld Em m 1934 70. 2 69. 8 70. 0 70. 2 70. 2 70. 2 70. 2	ploy- ent 1935 70. 5 70. 0 69. 8 69. 7 70. 0	Pay 1934 69. 0 67. 9 70. 4 68. 8 71. 4	73. 9 72. 9 75. 3 73. 1 73. 7	Em m 1934 82. 2 81. 2 81. 7 82. 4 83. 1	ploy- ent 1935 82. 7 82. 2 82. 2 82. 6 83. 2	Pay 1934 73.8 74.4 75.6 76.8 77.8	rolls 1935 78.0 78.3 79.4 79.0 79.8	1934 70. 5 71. 0 71. 7 72. 2 72. 6 73. 2 73. 1	ploy-ent 1935 71. 2 71. 0 71. 3 71. 4 71. 6	Pay 1934 59.2 60.1 62.2 62.9 63.0	19 62 63 63 63 63 63 63 63 63 63 63 63 63 63
Month January February March April May June	Em me 1934 73. 2 72. 4 72. 8 74. 0 76. 7 80. 0	1935 74. 9 74. 2 74. 0 74. 9 76. 0 76. 5	Pay 1934 53. 0 50. 5 52. 5 53. 4 56. 9	1935 55. 5 54. 9 56. 0 56. 7 57. 8 58. 3	Tele Em m 1934 70. 2 69. 8 70. 0 70. 2 70. 2 70. 4	ploy- ent 1935 70. 5 70. 0 69. 8 69. 7 70. 0 70. 2	Pay 1934 69.0 67.9 70.4 68.8 71.4 71.3	73. 9 72. 9 75. 3 73. 7 74. 4	Em m 1934 82. 2 81. 2 81. 7 82. 4 83. 1 84. 0	ploy- ent 1935 82. 7 82. 2 82. 2 82. 2 83. 2 83. 8	Pay 1934 73.8 74.4 75.6 76.8 77.8 81.1	rolls 1935 78.0 78.3 79.4 79.0 79.8 79.8	1934 70. 5 71. 0 71. 7 72. 2 72. 6 73. 2 73. 1	ploy- ent 1935 71. 2 71. 0 71. 3 71. 4 71. 6 71. 7	Pay 1934 59. 2 60. 1 62. 2 63. 0 63. 2	rol 19 62 63 63 63 63 63 63 63 63 63 63 63 63 63
Month January February March April May June July August	73. 2 72. 4 74. 0 76. 7 80. 0 81. 6 82. 7	1935 74. 9 74. 2 74. 0 76. 0 76. 5 76. 8	Pay 1934 53. 0 50. 5 52. 5 53. 4 56. 4 60. 0 661. 2	1935 55. 5 54. 9 56. 0 56. 7 57. 8 58. 3	Tele 1934 70. 2 69. 8 70. 0 70. 2 70. 2 70. 4 71. 0	ploy- ent 1935 70. 5 70. 0 69. 8 69. 7 70. 0 70. 2	Pay 1934 69. 0 67. 9 70. 4 68. 8 71. 4 71. 3 72. 3 74. 0	73. 9 72. 9 75. 3 73. 7 74. 4	Po fa Em m 1934 82. 2 81. 2 81. 7 82. 4 83. 1 84. 0 85. 0 85. 6	ploy- ent 1935 82. 7 82. 2 82. 2 82. 2 83. 2 83. 8	Pay 1934 73.8 74.4 75.6 76.8 77.6 77.8 81.1 79.9	rolls 1935 78.0 78.3 79.4 79.0 79.8 79.8	1934 70. 5 71. 0 71. 7 72. 2 72. 6 73. 2 73. 1 72. 8	ploy- ent 1935 71. 2 71. 0 71. 3 71. 4 71. 6 71. 7	Pay 1934 59. 2 60. 1 62. 2 62. 9 63. 0 63. 2 63. 8 62. 8	rol 19 66 66 66 66 66 66 66 66 66 66 66 66 66
Month January February March April May June July August September	Emp mo 1934	1935 74. 9 74. 2 74. 0 76. 0 76. 5 76. 8	Pay 1934 53. 0 50. 5 5 52. 5 53. 4 56. 4 66. 9 60. 0 61. 2 59. 7	1935 55. 5 54. 9 56. 0 56. 7 57. 8 58. 3	Tele Em 1934 70. 2 69. 8 70. 0 70. 2 70. 2 70. 4 71. 0 71. 0 70. 9	ploy- ent 1935 70. 5 70. 0 69. 8 69. 7 70. 0 70. 2	Pay 1934 69. 0 67. 9 70. 4 68. 8 71. 4 71. 3 72. 3 74. 0 72. 2	73. 9 72. 9 75. 3 73. 7 74. 4	Emimo 1934 82. 2 81. 2 82. 4 83. 1 84. 0 85. 0 85. 6 85. 8	ploy- ent 1935 82. 7 82. 2 82. 2 82. 2 83. 2 83. 8	Pay 1934 73.8 74.4 75.6 76.8 77.6 77.8 81.1 79.9 79.3	rolls 1935 78.0 78.3 79.4 79.0 79.8 79.8	70. 5 71. 0 71. 7 72. 2 72. 6 73. 2 73. 1 72. 8 72. 5	ploy- ent 1935 71. 2 71. 0 71. 3 71. 4 71. 6 71. 7	Pay 1934 59. 2 60. 1 62. 2 62. 9 63. 0 63. 2 63. 8 62. 4	19 6: 66 66 66 66 66 66 66 66 66 66 66 66
Month January February March April May June July August September October	Emm me 1934 73. 2 2 4 72. 8 74. 0 81. 6 82. 7 78. 1 81. 8 79. 5	1935 74. 9 74. 2 74. 0 76. 0 76. 5 76. 8	Pay 1934 53.0 50.5 52.5 53.4 56.9 60.0 61.2 61.2 60.8	1935 55. 5 54. 9 56. 0 56. 7 57. 8 58. 3	Tele Em 1934 70. 2 69. 8 70. 0 70. 2 70. 2 70. 4 71. 0 71. 0 70. 9 70. 3	ploy- ent 1935 70. 5 70. 0 69. 8 69. 7 70. 0 70. 2	Pay 1934 69. 0 67. 9 70. 4 68. 8 71. 4 71. 3 72. 3 74. 0 72. 2 74. 9	73. 9 72. 9 75. 3 73. 7 74. 4	Emimo 1934	ploy- ent 1935 82. 7 82. 2 82. 2 82. 2 83. 2 83. 8	Pay 1934 73. 8 74. 4 75. 6 76. 8 77. 8 81. 1 79. 9 79. 3 80. 6	rolls 1935 78.0 78.3 79.4 79.0 79.8 79.8	1934 70. 5 71. 0 71. 7 72. 2 73. 1 72. 8 72. 5 72. 2	ploy- ent 1935 71. 2 71. 0 71. 3 71. 4 71. 6 71. 7	Pay 1934 59. 2 62. 9 63. 0 63. 2 62. 8 62. 8 62. 8 62. 4 63. 0	16 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Month January February March April May June July August September October	Emp mo 1934	1935 74. 9 74. 2 74. 0 76. 0 76. 5 76. 8	Pay 1934 53. 0 50. 5 5 52. 5 53. 4 56. 4 66. 9 60. 0 61. 2 59. 7	1935 55. 5 54. 9 56. 0 56. 7 57. 8 58. 3	Tele Em 1934 70. 2 69. 8 70. 0 70. 2 70. 2 70. 4 71. 0 71. 0 70. 9	ploy- ent 1935 70. 5 70. 0 69. 8 69. 7 70. 0 70. 2	Pay 1934 69. 0 67. 9 70. 4 68. 8 71. 4 71. 3 72. 3 74. 0 72. 2 74. 9 72. 2	73. 9 72. 9 75. 3 73. 7 74. 4	Em. 1934 82. 2 81. 2 81. 7 82. 4 83. 1 84. 0 85. 6 85. 8 85. 8 85. 5	ploy- ent 1935 82. 7 82. 2 82. 2 82. 2 83. 2 83. 8	Pay 1934 73. 8 74. 4 75. 6 76. 8 77. 6 77. 8 81. 1 79. 9 79. 3 80. 6 79. 6	rolls 1935 78.0 78.3 79.4 79.0 79.8 79.8	Emmin 1934 70. 5 71. 0 71. 7 72. 2 72. 6 73. 1 72. 8 72. 5 72. 2 71. 8	ploy- ent 1935 71. 2 71. 0 71. 3 71. 4 71. 6 71. 7	Pay 1934 59. 2 60. 1 62. 2 62. 9 63. 2 63. 8 62. 8 62. 8 62. 0 63. 0 63. 0 63. 0 61. 8	19 66 66 66 66 66 66 66 66 66 66 66 66 66
Month	Emm me 1934 73. 2 2 72. 4 72. 8 74. 0 76. 7 76. 7 81. 8 82. 7 781. 8 79. 5 78. 8	1935 74. 9 74. 2 74. 0 76. 0 76. 5 76. 8	Pay 1934 53. 0 550. 5 52. 5 53. 4 56. 4 960. 0 61. 2 59. 7 60. 0 50. 50. 50. 50. 50. 50. 50. 0 60. 0	1935 55. 5 54. 9 56. 0 56. 7 57. 8 58. 3	Teld Em mo 1934 70. 2 69. 8 70. 0 70. 2 70. 2 70. 2 71. 0 71. 0 70. 9 70. 9 70. 9	ploy- ent 1935 70. 5 70. 0 69. 8 69. 7 70. 0 70. 2	Pay 1934 69. 0 67. 9 70. 4 68. 8 71. 4 71. 3 72. 3 74. 0 72. 2 74. 9	73. 9 72. 9 75. 3 73. 7 74. 4	Emimo 1934	ploy- ent 1935 82. 7 82. 2 82. 2 82. 2 83. 2 83. 8	Pay 1934 73. 8 74. 4 75. 6 76. 8 77. 8 81. 1 79. 9 79. 3 80. 6	rolls 1935 78.0 78.3 79.4 79.0 79.8 79.8	1934 70. 5 71. 0 71. 7 72. 2 73. 1 72. 8 72. 5 72. 2	ploy- ent 1935 71. 2 71. 0 71. 3 71. 4 71. 6 71. 7	Pay 1934 59. 2 62. 9 63. 0 63. 2 62. 8 62. 8 62. 8 62. 4 63. 0	11 66 66 66 66 66 66 66 66 66 66 66 66 6

¹ Comparable indexes for earlier years for all of these industries, except year-round hotels, will be found in the November 1934 and subsequent issues of this pamphlet, or the February 1935 and subsequent issue of the Monthly Labor Review. Comparable indexes for year-round hotels will be found in the June 1935 issue of this pamphlet, or the September 1935 issue of the Monthly Labor Review.

Table 4.—Indexes of Employment and Pay Rolls, January 1934 to July 1935—Continued

		-														
	w	holes	ale tra	ade	То	tal ret	ail tr	ade	Reta	il trad	le—ge ndisir	neral ig		il tr an ge andisi		
Month		ploy-	Pay	rolls	Emp	ploy- ent	Pay	rolls		ploy- ent	Pay	rolls		oloy-	Pay	rolls
	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935
January February March April May June June July August September October November December Average	80. 6 81. 2 81. 8 82. 1 82. 8 82. 3 82. 2 82. 5 83. 5 84. 3 85. 1 85. 0	84. 2 84. 6 84. 0 83. 2 82. 5 82. 1 82. 1	60. 3 61. 0 62. 0 63. 1 62. 6 62. 8 63. 8 62. 7 63. 6 64. 5 64. 2 63. 0	63. 9 64. 6 65. 2 64. 8 64. 6 64. 6	79. 8 79. 6 81. 5 82. 5 82. 9 82. 6 79. 0 77. 8 81. 7 82. 6 83. 7 91. 1	79. 5 79. 2 80. 2 83. 6 82. 2 82. 1 79. 1	59. 0 58. 8 59. 8 61. 2 61. 5 61. 4 60. 1 58. 4 60. 6 61. 9 66. 2 60. 9	59. 7 59. 3 60. 4 62. 5 62. 0 62. 4 60. 5	86. 6 85. 0 90. 1 91. 0 92. 0 90. 6 83. 0 81. 2 91. 5 94. 2 99. 9 128. 4		71. 1 68. 9 71. 5 74. 0 74. 5 73. 9 69. 5 66. 9 74. 0 77. 3 80. 2 99. 0 75. 1	73. 5 72. 3 74. 1 77. 5 76. 3 76. 3 71. 8	78. 0 78. 2 79. 3 80. 3 80. 5 77. 9 76. 9 79. 1 79. 5 79. 4 81. 3	77. 4 77. 3 78. 0 80. 7 79. 8 79. 8 77. 7	56. 5 56. 7 56. 7 57. 4 58. 5 58. 8 58. 8 58. 2 56. 6 57. 8 58. 7 58. 1 59. 4	56. 9 56. 6 57. 6 59. 4 59. 0 59. 5 58. 1
	Mon	th				ploy-	Pay	rolls		ploy-	Pay	rolls	Em	ploy-	1	rolls
					1934	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934	1935
February March April May June July August September October					81. 9 - 80. 4 - 80. 0		57. 2 60. 9 62. 2 62. 7 62. 9 61. 5 60. 2 61. 0 62. 7 62. 4 62. 2	62. 2 63. 5 63. 9 63. 6 63. 7 63. 5 62. 1	78. 5 78. 4 79. 2 80. 5 82. 1 84. 0 84. 6 83. 7 82. 9 81. 7 80. 3 79. 5	81. 1 82. 3 84. 4	61. 7 61. 7 62. 7 64. 4 66. 9 68. 3 68. 2 66. 6 65. 9 64. 8 63. 7 63. 3	63. 9 64. 1 64. 6 65. 5 66. 6 68. 2 70. 9	68. 1 68. 1 72. 4 79. 9 84. 3 84. 9 80. 5 78. 6 80. 0 80. 3 75. 8	70. 3 69. 6 72. 5 79. 9 80. 9 83. 6 81. 7	46. 8 46. 3 51. 7 60. 8 65. 1 64. 1 58. 9 56. 7 59. 0 59. 1 53. 9 51. 1	50. 4 49. 8 53. 8 61. 9 61. 7 65. 7 61. 8
Average.					80. 2		61. 6		81.3		. 64. 9		77. 1		56. 1	

Employment on Class I Railroads

According to reports of the Interstate Commerce Commission there were 1,006,495 workers, exclusive of executives and officials, employed in July by class I railroads—that is, roads having operating revenues of \$1,000,000 or over. This represents a gain of 0.3 percent over the total of 1,003,042 workers reported in June. The total compensation in July of all employees, except executives and officials, was \$134,992,051 compared with \$131,887,181 in June, a gain of 2.4 precent.

The Commission's preliminary index of employment for July, taking the 3-year average, 1923-25, as 100, is 57. The final June index is 56.8.

Table 5 shows the total number of employees by occupations on the 15th day of June and July 1935 and total pay rolls for these entire months. In these tabulations, data for the occupational

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group reported as "executives, officials, and staff assistants" are omitted. Beginning in January 1933 the Interstate Commerce Commission excluded reports of switching and terminal companies from its monthly tabulations. The actual figures for the months shown in the table, therefore, are not comparable with the totals published for the months prior to January 1933.

Table 5.—Employment and Pay Rolls on Class I Steam Railroads, June and July 1935

[From monthly reports of Interstate Commerce Commission. As data for only the more important occupations are shown separately, the group totals are not the sums of the items under the respective groups]

Occupation	Number of at middle	employees of month	Total earning	gs (monthly)
	June 1935	July 1935	June 1935	July 1935
All employees	1, 003, 042	1, 006, 495	\$131, 887, 181	\$134, 992, 05
Professional, clerical, and general	163, 274	163, 366	24, 523, 605	24, 933, 20
Clerks	84, 877	84, 834	12, 069, 137	12, 347, 7
Stenographers and typists	15, 336	15, 427	2, 046, 817	2, 073, 8
Maintenance of way and structures	228, 795	234, 632	19, 976, 8781	21, 034, 5
Laborers, extra gang and work train	34, 331	36, 647	2, 167, 872	2, 441, 4
Track and roadway section laborers	114, 356	117, 306	7, 335, 912	7, 809, 1
Maintenance of equipment and stores	271, 224	270, 672	32, 733, 916	33, 625,
Carmen.		55, 151	7, 577, 796	7, 760,
Electrical workers	8, 734	8, 609	1, 289, 733	1, 323,
Machinists		38, 505	5, 386, 624	5, 570,0
Skilled trades. Laborers (shop, engine houses, power plants, and	59, 389	59, 233	5, 927, 110	6, 099,
stores)	20, 472	20, 565	1, 708, 758	1, 759,
Common laborers (shop, engine houses, power	20, 112	20,000	2,100,100	2,100,
plants, and stores)	17, 647	17,710	1, 166, 463	1, 200,
Transportation, other than train, engine and yard	123, 346	123, 168	15, 072, 644	15, 547,
Station agents	23, 439	23, 454	3, 595, 330	3, 713,
Telegraphers, telephoners, and towermen	14, 260	14, 326	2, 166, 713	2, 237,
Truckers (stations, wa.ehouses, and platforms)	17, 391	17, 047	1, 445, 886	1, 477,
Crossing and bridge flagmen and gatemen	16, 597	16, 618	1, 206, 432	1, 216,
Transportation, yardmasters, switch tenders, and hos-	-0,001	20,020	2,200,202	2, 220,
tlers	12, 193	12, 216	2, 288, 385	2, 357,
Pransportation, train and engine.		202, 441	37, 291, 753	37, 493,
Road conductors.		22, 674	5, 324, 617	5, 407,
Road brakemen and flagmen.		46, 556	7, 203, 584	7, 280,
Yard brakemen and yard helpers.		34, 569	4, 942, 269	4, 903,
Road engineers and motormen		27, 350	7, 151, 107	7, 178,
Road firemen and helpers		29, 881	5, 161, 261	5, 174

Trend of Employment, by States

Changes in employment and pay rolls from June to July 1935 are shown by States in table 6 for all groups combined, except building construction, and for all manufacturing industries combined. Data concerning groups which have appeared in this table in previous issues of this pamphlet are available on the Bureau's office records.

The percentage changes shown in the table, unless otherwise noted, are unweighted. That is, the industries included in the manufacturing group and in the grand total have not been weighted according to their relative importance.

Table 6.—Comparison of Employment and Pay Rolls in Identical Establishments in June and July 1935, by Geographic Divisions and by States

Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

10450		Tot	al—All	groups		L. S.	М	anufacti	uring	
Geographic divi- sion and State		Number on pay roll July 1935	Percentage change from June 1935	Amount of pay roll (1 week) July 1935	Per- cent- age change from June 1935	ber of	Number on pay roll July 1935	Percentage change from June 1935	Amount of pay roll (1 week) July 1935	Per- cent- age change from June 1935
New England Maine New Hamp-	13, 905 761	783, 247 48, 871		\$16, 508, 542 894, 676		3, 165 241	513, 767 38, 967		\$9, 966, 093 682, 369	
shire	675	40, 357	-2.6	767, 679	1	187	32,832	-4.8	599, 211	-1.5
Vermont	456	15, 780	+5.4				9,072	+6.7	183, 250	
Massachusetts_	28,637	426, 558	1	9, 335, 226	+.4	1,545	233, 404	+.5	4, 631, 083	+.8
Rhode Island	1, 245	82, 023		1, 640, 906	-2.4	413	233, 404 61, 718	-4.2	1, 132, 580	-3.6
Connecticut	2, 131	169, 658	- 2	3, 548, 585	7	651	137, 774	2	2, 737, 600	-1.
Middle Atlantic	31, 020	1, 717, 152		38, 804, 007	-6.9	4, 970	1, 034, 903	-,2	21, 964, 862	
New York					-2.0	31,913	379, 104	6	9,072,317	-1.
New Jersey		239, 637	+.9	5, 490, 662		4 754		+.2		
Pennsylvania	8, 965	748, 879	-3.3	14, 819, 289	-14.5	2, 303	442, 370	1	8, 199, 202	-3.
East North Cen-							4 800 000		80 BOO 100	
tral					-3,3	6, 721	1, 292, 384	-1.6		
Ohio	8, 319	513, 162								
Indiana Illinois	2, 017	179, 768		3, 566, 141	-5.9		141, 018	1		
Michigan	2 515	467, 846	-1.5 -4.2	10, 615, 424 10, 638, 750	-1.0 -5.3		296, 475 352, 341	-1.3		-1. -11.
Michigan Wisconsin	1,015	171, 124		3, 636, 576	+2.8		197 700	7 +8.0		
West North Cen-	1,010	111,124	T.D. U	3, 630, 076	75.0	100	137,700	1 +0.0	2,004,018	. 49.
	11, 378	392, 194	+.5	8, 604, 119	+.9	2, 178	184, 893	+2,6	3, 969, 580	+2.
Minnesota			+3.5			380	41, 121	+9.2	879, 087	
Iowa		54, 881		1, 131, 231	6	394		+2.2	583, 826	
Missouri	3, 332	154, 007			+1.0	771				
North Dakota.	569	4, 918		107, 969	+1.4	46		+.7	19, 933	+1.
South Dakota.	520	5, 536			+2.0	34		+6.7	39, 236	
Nebraska	1.360	30, 584			2	156				
Kansas	* 1,766	54, 822			4	398				
South Atlantic	10, 612	671, 858	-2.1	11, 147, 323	-7.1	2, 655				-1.
Delaware	229	12, 834	-1.1	273, 283	-2.3	78				
Maryland	1.580	88, 661				530				
District of Co-										
lumbia	943					38				
Virginia	2, 039		1					6	989, 629	
West Virginia.	1, 232	134, 126	-2.4		-23.5				1, 042, 446	-1.
North Carolina		135, 251	-1.2	1, 774, 065	-2.3				1, 606, 675	
South Carolina	663		-3.1	722, 699	+1.8				602, 350	
Georgia	1,476				+.1	372				
Florida	1, 188	33, 251	-4.8	583, 023	-3.6	193	15, 738	-3.8	229, 880	-3.
East South Cen-	4 444	990 991		9 750 000		913	190 041		9 000 000	
Kentucky	1, 413		-2.6	3, 750, 882 1, 339, 838		2 278		-3.6	2, 069, 894 545, 947	
Kentucky Tennessee	1, 234	78, 575	8 6	1, 339, 838					843, 533	
Alabama	1, 201	67, 678		936, 939		3 234			588, 37	
Mississippi	568	13, 800	+1.9	199, 212						
West South Cen-	000	10,000	T1.0	100, 212	T	3	1,100	70.0	02,01	T 0.
tral	4, 445	167, 083	+0.4	3, 491, 345	+1.7	920	77, 94	+0.6	1, 525, 090	+0.
Arkansas	655	20, 196	-1.0					8	189, 41	-2.
Louisiana	987	40, 261	+.1	723, 624	+2.	2 20	19, 75	38	305, 23	+2.
Oklahoma	1, 427				+.6	134			202, 863	
Texas	1,385	66, 678		1, 567, 478				+1.	827, 58	+2.

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1, 200, 017 5, 547, 880 3, 713, 355 2, 237, 715 1, 477, 861 1, 216, 704

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Less than 1/10 of 1 percent.

Includes construction, municipal, agricultural, and office employment, amusement and recreation, professional services, and trucking and handling.

Includes laundering and cleaning, but does not include food, canning, and preserving.

Includes laundries.

Includes miscellaneous services and building and contracting.

Includes construction, but does not include hotels and restaurants, and public works.

Weighted percentage change.

Includes construction, miscellaneous services (theaters), and restaurants.

Includes automobile dealers and garages, and sand, gravel, and building stone.

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Table 6.—Comparison of Employment and Pay Rolls in Identical Establishments in June and July 1935, by Geographic Divisions and by States—Con.

The state of the state of		Tot	al-All	groups			M	anufact	uring	
Geographic divi- sion and State	Number of establishments		Percentage change from June 1935	Amount of pay roll (1 week) July 1935	Percentage change from June 1935	ber of		Percentage change from June 1935	Amount of pay roll (1 week) July 1935	Per- cent- age chang from June 1935
Mountain. Montana Idaho Wyoming. Colorado New Mexico. Arizona Utah Nevada Pacific Washington Oregon California	4, 261 749 466 336 1, 036 364 504 563 243 5, 804 2, 875 1, 199	16, 029 9, 664 7, 873 37, 986 6, 806 11, 195 18, 297 3, 134 388, 779	+3.5 +.8 -8.1 +24.6 +1.8	418, 204 192, 784 201, 534	+5.8 +6.2 4 +1.0 -4.5 -8.0 +14.9 +1.5 +3.4 +8.2 +2.8	80 50 42 184 23 41 109 31 1,726 488 255	4, 156 4, 068 1, 714 14, 087 1, 069 2, 519 8, 630 211, 967 38, 986 26, 248	+2.7 +29.8 +2.1 +10.9 -5.5 -1.1 +67.2 +.6 +9.5 +24.7 +7.0	98, 912 78, 913 47, 651 295, 186 19, 693 46, 045 145, 714 22, 052 4, 891, 042 759, 012 524, 101	+6. +15. +2. +3. -9. -4. +46. +. +5. +21. +3

10 Includes banks, insurance, and office employment.

Industrial Employment and Pay Rolls in Principal Cities

A comparison of July employment and pay-roll totals with June totals in 13 cities of the United States having a population of 500,000 or over is made in table 7. These changes are computed from reports received from identical establishments in each of the months considered.

In addition to reports included in the several industrial groups regularly covered in the survey of the Bureau, reports have also been secured from establishments in other industries for inclusion in these city totals. As information concerning employment in building construction is not available for all cities at this time, figures for this industry have not been included in these city totals.

Table 7.—Fluctuations in Employment and Pay Rolls in July 1935 as Compared with June 1935

Cities	Number of establish- ments re-	Number on pay roll		Per- centage change	Amount of	Per- centage change	
	porting in both months	June 1935	July 1935	from June 1935	June 1935	July 1935	from June 1935
New York City	14, 183	573, 144	560, 918	-2.1	15, 258, 452	14, 941, 104	-2.
Chicago, Ill	3, 531	329, 796	322, 337	-2.3	8, 071, 739	7, 916, 147	-1.
Philadelphia, Pa	2,724	216, 519	214, 810	8	5, 008, 627	4, 937, 145	-1.
Detroit, Mich	1, 497	306, 434	290, 303	-5.3	7, 778, 090	7, 290, 565	-6.
Los Angeles, Calif	2, 383	121, 103	120, 312	7	2, 979, 393	2, 977, 531	-
Cleveland, Ohio	1,788	121, 387	120, 078	-1.1	2, 837, 060	2, 768, 377	-2
St. Louis, Mo	1, 721	116, 262	115, 714	5	2, 568, 924	2, 608, 012	
Baltimore, Md	1,324	78, 231	77, 239	-1.3	1, 683, 754	1, 654, 853	
Boston, Mass	3, 794	152, 879	153, 351	+.3	3, 551, 684	3, 596, 182	+1.
Pittsburgh, Pa	1, 377	148, 092	145, 154	-2.0	3, 159, 529	2, 996, 885	-5.
San Francisco, Calif	1, 501	79, 142	81, 120	+2.5	2, 096, 616	2, 123, 357	+1
Buffalo, N. Y	869	64, 862	62, 754	-3.2	1, 498, 895	1, 423, 149	-5.
Milwaukee, Wis	675	66, 274	66, 739	+.7	1, 533, 428	1, 548, 141	+1.

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Public Employment

ALTHOUGH industrial employment in July was slightly below the June level, a small increase occurred in employment in the regular gencies of the Federal Government. Including the executive, judieial, legislative, and military services, as well as construction projects fnanced wholly or partially from Federal funds, the number of employees on pay rolls of the United States Government totaled 1,440,087 In July. The most pronounced decline was reported in the number of workers employed on projects financed from funds of the Reconstruction Finance Corporation. (See table 8.)

Due to a contraction in the emergency-work program, the numher of employees on Federal relief work also declined during the month. In July, 1,928,789 workers were employed on the emergencywork program of the Federal Emergency Relief Administration, a decrease of 4.6 percent in comparison with the number reported in June. On the other hand, enrollment in Civilian Conservation Camps increased by more than 12 percent.

The principal changes in Federal employment and pay rolls during the month interval are indicated by table 8.

Table 8.—Summary of Federal Employment and Pay Rolls, July 1935

Class	Emplo	yment	Per- cent- age change	Pay	Per- cent-	
Children Server - Ten A. Co.	July	June		July	June	age change
Federal service:	- 1					
Executive	1 731, 539	718, 236	+1.9	\$111, 110, 248	\$109, 300, 324	+1.7
Judicial	1,766	1,854	-4.7	473, 044	449, 217	+5.3
Legislative	5, 014	4,871	+2.9	1, 181, 349	1, 154, 868	+2.3
Military	261, 067	258, 410	+1.0	20, 689, 446	21, 364, 278	-3.2
Construction projects financed by						
P. W. A	405, 332	414, 306	-2.2	24, 968, 785	25, 386, 962	-1.0
Construction projects financed by						
R. F. C	9, 581	11, 901	-19.5	1,001,653	1, 191, 336	-15.9
Construction projects financed by regular governmental appropria-	and the same			intolous.	1000	
tions	25, 788	26, 191	-1.5	1, 890, 209	1, 904, 454	7
Relief work:			1000	The state of the	.,,	
Emergency-work program	1, 928, 789	2, 021, 060	-4.6	53, 136, 834	54, 260, 051	-2.1
Emergency conservation work	2 480, 586	8 427, 556	+12.4	2 22, 074, 577	1 19, 766, 881	+11.7

¹ Includes 116 employees by transfer, previously reported as separations by transfer, not actual additions

Executive, Legislative, Military, and Judicial Services of the Federal Government

During July employment increased in the executive, legislative, and military services of the Federal Government. The judicial branch, however, showed a decline of 4.7 percent.

The information concerning employment in the executive departments is collected by the Civil Service Commission from the various departments and offices of the United States Government.

for July.

Includes 40,368 employees and a pay roll of \$5,217,265 included in executive service.

Includes 38,451 employees and a pay roll of \$4,944,676 included in executive service.

figures are tabulated by the Bureau of Labor Statistics. Data for the legislative, judicial, and military services are collected and tabulated by the Bureau of Labor Statistics.

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Information concerning the number of employees in the executive departments of the Federal Government is shown in table 4. for employees working in the District of Columbia are shown sepa. rately.

Table 9.—Employees in the Executive Service of the United States, July 1934. June 1935, and July 1935

-military (187) principles	Distric	District of Columbia		Outside District of Columbia			Entire service		
Item	Perma- nent	Tempo- rary 1	Total	Perma- nent	Tempo-	Total	Perma- nent	Tempo-	Total
Number of employees: July 1934 June 1935 July 1935 Gain or loss:	81, 742 92, 727 94, 210	11, 250	103, 977	516, 166	98, 093	614, 259	608, 893	109, 343	718, 23
July 1934 to July 1935 June 1935 to July 1935 Percentage change:	+12, 468 +1, 483	+2, 129 -725	+14, 597 +758	+17, 987 +5, 019	+11, 631 +7, 526	+29, 618 +12, 545	+30, 455 +6, 502		
July 1934 to July 1935 June 1935 to July 1935	+15.25 +1.6					+4.96 +2.04			
Labor turn-over, July 1935: Additions 3 Separations 3 Turn-over rate per 100	2, 528 1, 727 1. 85	1, 462	4, 189 3, 189 3, 06		20, 251	27, 811	9, 287	21, 713	31,0

1 Not including field employees of the Post Office Department and 41,642 employees hired under letters of authorization by the Department of Agriculture with a pay roll of \$1,422,437.

Includes 116 employees by transfer previously reported as separations by transfer, not actual additions

for July.

Not including employees transferred within the Government service as such transfers should not be regarded as labor turn-over.

There were 13,303 more employees working in the executive branch of the Federal Government in July than in the preceding month. During the year there was a gain of more than 44,000 workers in the executive service of the Federal Government. During the same period Federal employment in the District of Columbia increased 16.2 percent and employment outside the District increased 5.0 percent.

The Resettlement Administration, with 6,907 more workers in July, accounted for over half the net gain in Federal employment The branches showing the most pronounced during the month. decreases for the month were the Treasury Department, the Department of the Interior, the Farm Credit Administration. and the National Recovery Administration.

Construction Projects Financed by Public Works Administration

DETAILS concerning employment, pay rolls, and man-hours worked on construction projects financed by Public Works Administration funds in July are given in table 10, by type of project.

Table 10.—Employment and Pay Rolls on Construction Projects Financed from Public Works Funds, July 1935

[Subject to revision]

		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	Wage	earners	0% 11-12-11			
Type of project	Maxi- mum number em- ployed 1	Weekly average	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
- Alexander Landon (Alexandra)			Federa	l projects	- 01	CONTRACT.
All projects	2 272, 995	264, 496	\$16, 563, 938	27, 002, 929	\$0.613	\$25, 273, 109
Building construction Forestry Naval vessels Public roads 3 Reclamation River, harbor, and flood control	15, 539 407 22, 790 (4) 24, 467 27, 312	13, 185 391 22, 493 170, 543 23, 443 23, 498	929, 788 22, 713 2, 872, 857 7, 386, 000 2, 511, 129 2, 093, 058	1, 256, 560 32, 675 3, 495, 471 14, 306, 000 3, 677, 865 2, 969, 125	. 740 . 695 . 822 . 516 . 683 . 705	1, 994, 830 21, 754 3, 105, 508 12, 000, 000 3, 454, 837 3, 773, 297
Streets and roads	6, 568 460 4, 909	5, 993 382 4, 568	327, 701 27, 331 393, 361	578, 906 36, 061 650, 266	. 566 . 758 . 605	313, 997 39, 749 569, 137
and the fact of the section of	I figure	lucy III	Non-Fed	eral projects		1000
All projects	126, 158	105, 383	\$7, 847, 300	10, 104, 399	\$0.777	\$13, 798, 978
Building construction Railroad construction Streets and roads Water and sewerage Miscellaneous	55, 387 8, 632 20, 836 35, 932 5, 371	46, 205 7, 573 17, 364 29, 775 4, 466	575, 356 1, 032, 209 2, 106, 701	4, 201, 469 970, 592 1, 561, 672 2, 885, 417 485, 249	. 904 . 593 . 661 . 730 . 687	7, 182, 882 68, 018 1, 855, 596 4, 017, 928 674, 554

Maximum number employed during any 1 week of the month by each contractor and Government Jestimated by the Bureau of Public Roads.
Not available; average number included in total.

Compared with the previous month, moderate increases in employment on Federal construction projects were shown in naval-vessel construction and in river, harbor, and flood-control work. non-Federal projects, the total number of wage earners employed increased by more than 10,000 in July. Reports for the month showed increases in the number of men employed in every type of non-Federal project except railroad construction. Building construction, with an increase of nearly 5,300 workers, had the most pronounced rise.

On Federal projects earnings per hour averaged 61 cents. earnings ranged from a high of 82 cents paid on naval-vessel construction to a low of 52 cents received in road building. On non-Federal

Total 687, 324 1 2731, 539 +44, 215 1 +13,303 +6.43 +1.85 44, 187 31,000 4.28 letters of additions ld not be

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projects the average hourly earnings were 77 cents; the highest, 90 cents, was received by workers on building construction.

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Federal construction projects are financed entirely by allotments made by the Public Works Administration to the various agencies and departments of the Federal Government. The work is performed either by commercial firms, which have been awarded contracts, or by day labor hired directly by the Federal agencies.

Non-Federal projects are financed by allotments made by the Public Works Administration to a State or one of its political subdivisions; in some cases allotments are made to commercial firms. In making allotments to the States or their political subdivisions, the Public Works Administration makes a direct grant of not more than 30 percent of the total construction cost. The remaining 70 percent of the cost is financed by the recipient. The Public Works Administration, in some instances, provides the additional financing by means of a loan; in other cases the loan is procured from outside sources. Loans made by the Public Works Administration carry interest charges and have a definite date of maturity.

Grants are not made to commercial firms. Railroads, for the most part, have been the chief recipients of commercial allotments. Railroad work financed by loans made by the Public Works Administration falls under three headings: First, construction work in the form of electrification, the laying of rails and ties, repairs to buildings, bridges, etc.; second, the building and repairing of locomotives and passenger and freight cars in shops operated by the railroads; and, third, locomotive and passenger- and freight-car building in commercial shops.

Information concerning the first type of railroad work, i. e., construction is shown in table 10, page 1079. Employment in car and locomotive shops owned by the railroads and in commercial car and locomotive shops is shown in a separate table. (See table 12, p. 1082.)

Comparisons by Geographic Divisions

EMPLOYMENT, pay rolls, and man-hours worked in July 1935 on construction projects financed by the Public Works Administration fund is shown by geographic divisions in table 11.

Table 11.- Employment and Pay Rolls on Construction Projects Financed from Public Works Funds, July 1935

[Subject to revision]

	Wage 6	earners			1	ETHICAL SALE
Geographic division	Maxi- mum number em- ployed 1	Weekly	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
The state of the s			Feder	al projects		
All divisions *	272, 995	264, 496	\$16, 563, 938	27, 002, 929	\$0.613	* \$25, 273, 109
New England Middle Atlantic East North Central_ West North Central_ South Atlantic_ East South Central_ West South Central_ Mountain Pacific Outside continental United States	15, 257 32, 106 34, 044 44, 937 44, 607 34, 377 23, 854 23, 780 15, 587 4, 256	14, 951 31, 233 32, 997 43, 718 43, 169 34, 048 22, 965 22, 551 14, 863 3, 811	1, 198, 528 2, 221, 666 1, 946, 065 1, 741, 364 2, 834, 915 2, 080, 937 851, 350 1, 968, 055 1, 493, 992 211, 587	1, 752, 637 3, 472, 826 2, 893, 001 3, 163, 012 4, 763, 306 3, 889, 014 1, 847, 922 2, 903, 014 1, 874, 088 417, 878	. 684 . 640 . 673 . 551 . 595 . 535 . 461 . 678 . 797 . 506	1, 100, 569 1, 519, 060 1, 019, 622 1, 129, 945 2, 840, 505 1, 727, 850 136, 236 1, 960, 493 1, 488, 774 345, 503
15 155			Non-Fed	leral projects		
All divisions	126, 158	105, 383	\$7, 847, 300	10, 104, 399	\$0.777	\$13, 798, 978
New England	12, 489 27, 449 18, 456 18, 849 16, 761 4, 340 11, 655 3, 474 11, 793 892	10, 538 23, 246 15, 191 15, 950 14, 116 3, 608 9, 307 2, 744 9, 957 726	800, 888 2, 078, 556 1, 146, 420 1, 103, 564 958, 129 207, 672 485, 754 205, 225 817, 354 43, 738	1, 036, 580 2, 306, 857 1, 410, 282 1, 488, 792 1, 479, 308 333, 359 771, 906 254, 858 923, 173 69, 284	.751 .901 .813 .741 .648 .623 .629 .805 .885	1, 544, 053 3, 072, 394 2, 088, 294 2, 656, 512 936, 834 363, 899 1, 157, 748 507, 746 1, 391, 795 79, 703

¹ Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work. Includes weekly average for public-road projects

¹ Includes data for 190 wage earners which cannot be charged to any specific geographic division.

² Includes \$12,000,000 estimated value of material orders placed for public-road projects which cannot be charged to any specific geographic division.

During July there was a falling off in employment on Federal projects in all geographic divisions except the East North Central States. On non-Federal projects, however, all divisions except three registered increases. Considering Federal and non-Federal projects as a whole the geographic divisions with the greatest number of employees were the West North Central States and the South Atlantic States.

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Table 12 shows employment, pay rolls, and man-hours worked during July 1935 in railway car and locomotive shops on projects financed from the Public Works Administration fund, by geographic divisions.

Table 12.—Employment and Pay Rolls in Railway Car and Locomotive Shops on Work Financed from Public Works Funds, July 1935

	[Sul	oject to rev	ision]						
	Wage e	arners		N	America	Value of			
Geographic division	Maximum number employed	Semi- monthly average	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	material orders placed			
Total, railroad and commercial shops	6, 179	(3)	\$557, 547	737, 719	\$0.756	(1)			
	Railroad shops								
All divisions	1, 958	1, 741	\$124, 262	148, 372	\$0.838	\$63, 33			
New England	236 1, 722	236 1, 505	24, 211 100, 051	32, 194 116, 178	. 752 . 861	3, 21 60, 11			
	Commercial shops								
All divisions	4, 221	(1)	\$433, 285	589, 347	\$0.735	(1)			
New England	3, 824 311 85	(3) (3) (5) (7)	13 410, 915 16, 913 5, 444	557, 010	. 520 . 738 . 740 . 576	(2) (2) (3) (2)			

Maximum number employed during either semimonthly period by each shop.
 Data not available.

Compared with June, there was a decrease of about 1,800 in the number of workers engaged in building and repairing locomotives and passenger and freight cars.

Monthly Trend

EMPLOYMENT, pay rolls, and man-hours worked at the site of Public Works Administration construction projects from the beginning of the program in July 1933 to July 1935 are shown in table 13.

Table 13.—Employment and Pay Rolls, July 1933 to July 1935, Inclusive, on Projects Financed from Public-Works Funds

Month and year	Maximum number of wage earners 1	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
July 1933 to July 1935, inclusive 2		\$485, 739, 403	803, 595, 653	\$0.604	\$919, 878, 603
1935 July	4, 719 39, 535	26, 433 131, 937 1, 784, 996 6, 353, 835 11, 552, 547 13, 091, 587	35, 217 206, 990 3, 296, 162 12, 029, 751 21, 759, 245 24, 391, 546	. 751 . 637 . 542 . 528 . 531 . 537	202, 100 1, 628, 537 23, 351, 150 24, 568, 577 25, 702, 750
1934	311, 381 307, 274 382, 220 506, 056 610, 752 644, 729 629, 907 575, 655 507, 886	12, 646, 241 14, 348, 094 14, 113, 247 18, 785, 405 25, 942, 387 33, 808, 429 34, 845, 461 36, 480, 027 32, 758, 792 29, 289, 216 28, 791, 297 22, 443, 944	23, 409, 908 26, 544, 346 25, 501, 446 32, 937, 649 46, 052, 698 59, 873, 309 60, 736, 768 61, 925, 300 53, 427, 904 46, 632, 214 46, 454, 108 34, 955, 156	. 540 . 541 . 553 . 570 . 563 . 565 . 574 . 589 . 613 . 628 . 620	24, 206, 352 25, 269, 537 3 69, 766, 559 3 68, 526, 223 3 50, 468, 427 3 60, 797, 939 3 53, 377, 997 3 54, 192, 443 3 50, 878, 000 3 50, 234, 495 54, 228, 457 45, 683, 081
January	272, 273 281, 461 333, 045 394, 875 414, 306	18, 462, 677 16, 896, 475 17, 400, 798 20, 939, 741 24, 490, 087 25, 386, 962 24, 968, 785	27, 478, 022 25, 144, 558 26, 008, 063 31, 387, 712 36, 763, 164 38, 800, 178 37, 845, 047	. 672 . 672 . 669 . 667 . 667 . 654	³ 30, 746, 857 29, 264, 484 27, 276, 566 31, 645, 166 36, 893, 840 41, 833, 642 39, 135, 424

Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work. Includes weekly average for public-road projects.
 Includes orders placed for material for naval vessels prior to October 1933.
 Includes orders placed by railroads for new equipment.

From July 1933 to July 1935, inclusive, wage earners were paid over \$485,000,000 for work at the site of Public Works Administration projects. Hourly earnings received have averaged 60 cents. During this period orders were placed for materials amounting to over \$919,000,000.

It is estimated that approximately 3,000,000 man-months of labor have been or will be created in fabricating the materials represented by the total orders placed for materials since the inception of the

public-works program.

Materials for which orders were placed during July will create about 125,000 man-months of labor. This accounts only for labor required in the fabrication of material in the form in which it is to be used. In the manufacture of brick, for example, only the labor employed in the manufacturing process is included. No estimate is made of the labor required in taking the clay from the pits or in transporting the clay and other materials used in the manufacturing process. In fabricating steel rails, the only labor counted is that occurring in the rolling mills. An estimate is not made for the labor

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In obtaining information concerning man-months of labor created in fabricating materials, each firm receiving a material order which is to be financed from the public-works fund, from the United States Government, or from State governments or their political subdivisions is sent a schedule. It is requested that the manufacturer fill in this schedule estimating the number of man-hours created in the plant in manufacturing the material specified in the contract. In the case of materials purchased directly by contractors, the Bureau estimates the man-months of labor created. This estimate is made by using the experience of manufacturing plants as shown by the Census of Manufactures, 1933.

Emergency-Work Program

During the week ended July 25 there were over 1,300,000 workers employed on the emergency-work program of the Federal Emergency Relief Administration. Compared with the week ended June 27, this represents a decrease in the number working of 181,428, or 12.14 percent. Pay-roll disbursements also showed a drop. The total pay roll of more than \$12,000,000 was more than 11 percent less than in the week ended June 27.

Table 14 shows the number of employees and amounts of pay rolls for the emergency-work program for the weeks ended June 27 and July 25.

Table 14.—Employment and Pay Rolls for Workers on Emergency-Work
Program, Weeks Ended June 27 and July 25, 1935

Geographic division	Number of emende		Amount of pay roll, week ended—		
lating the materials represented	July 25	June 27	July 25	June 27	
All divisions	1, 312, 891 -12, 14	1, 494, 319	\$12, 493, 222 -11.92	\$14, 183, 45	
New England	144, 441 155, 982 208, 757 173, 023	158, 903 182, 419 218, 881 212, 261	1, 776, 698 2, 781, 291 2, 043, 638 1, 327, 842	1, 998, 51 3, 243, 78 2, 134, 34 1, 646, 9	
South Atlantic. East South Central. West South Central Mountain Pacific.	203, 170 104, 779 135, 313 52, 643 134, 783	223, 633 144, 310 176, 725 49, 476 127, 711	1, 043, 108 464, 307 775, 132 537, 607 1, 743, 599	1, 197, 1 729, 3 1, 093, 2 497, 4 1, 642, 5	

Emergency Conservation Work

A GAIN of more than 53,000 in the month of July was reported in the number of men employed in Civilian Conservation Camps. Every class of employee, except educational advisers, was represented in the increase.

The total pay roll for July was more than \$22,000,000, which was an increase of more than \$2,300,000 over the figure for June. enrolled personnel received over \$12,850,000 of this amount. enrolled men, in addition to their pay, were provided with board, clothing, and medical services.

Table 15 gives, for June and July, the employment and pay-roll statistics for each of the major groups of workers engaged in Emergency Conservation Work.

Table 15.—Employment and Pay Rolls in Emergency Conservation Work, June and July 1935

and a state and the same	Number of e	mployees	Amount of pay rolls		
Group	July	June	July	June	
All groups	480, 586	427, 556	\$22, 074, 577	\$19, 766, 881	
Enrolled personnel. Reserve officers Educational advisers 1 Supervisory and technical 2.	411, 556 10, 155 1, 334 3 57, 541	367, 430 10, 005 1, 413 4 48, 708	12, 852, 894 2, 550, 282 228, 297 3 6, 443, 104	11, 474, 839 2, 511, 028 236, 402 4 5, 544, 612	

Included in executive service table.
 Includes carpenters, electricians, and laborers.
 39,034 employees and pay roll of \$4,988,968 included in executive service table.
 37,038 employees and pay roll of \$4,708,274 included in executive service table.

The employment and pay-roll data for emergency conservation workers are collected by the Bureau of Labor Statistics from the War Department, the Department of Agriculture, the Treasury Department, and the Department of the Interior. The monthly pay of the enrolled personnel is distributed as follows: 5 percent are paid \$45; 8 percent, \$36; and the remaining 87 percent, \$30.

State-Road Projects

EMPLOYMENT on State-road projects during July increased by more than 16 percent in the construction of new roads, and by more than 7 percent in maintenance work. The number of employees on new projects increased by more than 5,000 and the increase in employees in maintenance work was more than 10,000.

Table 16 shows, by geographic divisions, the number of workers employed in building and maintaining State roads during June and July 1935.

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Table 16.—Employment on Construction and Maintenance of State Roads, by Geographic Division, June and July 1935 1

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Geographic division	Number of employees		Amount of pay roll		Number of employees		Amount of pay rol	
	July	June	July	June	July	June	July	June
All divisions	35, 826 +16. 2	30, 823	\$1,543,619 +26.3	\$1, 222, 211	148, 575 +7. 5	138, 253	\$6, 688, 970 +14, 2	\$5, 857, 58
New England	8, 642 1, 893 6, 522 3, 047	4, 055 2, 421 6, 522 3, 402	370, 538 157, 268 385, 746 102, 512	154, 416 171, 504 305, 266 95, 431	12, 716 27, 422 22, 864 18, 745	13, 056 31, 642 17, 630 14, 219	677, 448 1, 098, 817 1, 148, 199 718, 614	1, 235, 22 882, 44 544, 75
South Atlantic	7, 341 2, 300 2, 045 1, 962	7, 552 1, 668 1, 672 1, 475	137, 149 86, 042 62, 449 98, 906	141, 445 62, 797 57, 744 74, 302	29, 165 9, 046 14, 835 7, 000	29, 243 8, 598 12, 256 5, 702	1,080,981 334,894 681,428 459,568	965, 1 284, 9 471, 5 401, 8
Pacific Outside continental United States	2, 074	2, 056	143, 009	159, 306	6, 613	5,744	474, 385 14, 636	13, 5

¹ Excluding employment furnished by projects financed from public-works fund.

The State governments employed more men and expended more money for pay rolls in building new roads and maintaining highways in July than in any previous month of the current year.

Reconstruction Finance Corporation Construction Projects

RECONSTRUCTION Finance Corporation construction projects during July provided work for more than 9,500 men and resulted in pay-roll disbursements of more than \$1,000,000. Compared with the previous month, however, these figures represent a decrease; the pay roll in June was in excess of \$1,190,000 and more than 11,000 wage earners were employed.

The data concerning employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation during July is given in table 17 by type of project.

Table 17.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, July 1935

Type of project	Number of wage earn- ers	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
All projects	9, 581	\$1,001,653	1, 349, 064	\$0.742	\$1, 495, 108
Bridges Building construction Railroad construction Reclamation Water and sewerage Miscellaneous	2, 349 194 194 450 5, 696 1, 298	215, 801 13, 995 9, 040 23, 141 591, 968 147, 708	241, 239 12, 964 17, 084 46, 999 810, 663 220, 115	. 895 1. 080 . 529 . 492 . 730 . 671	391, 077 14, 366 287 4, 726 657, 736 426, 916

The number of employees, the amounts of pay rolls, and the number of man-hours worked on construction projects financed by the Reconstruction Finance Corporation during July are shown in table 18 by geographic divisions.

Table 18.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Geographic Division, July 1935

Geographic division	Number of employees	Amount of pay rolls	Number of man-hours worked	Average earnings per hour	Value of material orders placed
All divisions	9, 581	\$1,001,653	1, 349, 064	\$0.742	\$1, 495, 108
Middle Atlantic East North Central East South Central West South Central	480 442 174 88	32, 830 36, 782 6, 964 10, 352	40, 094 34, 250 12, 812 10, 895	. 819 1. 074 . 544 . 950	68, 469 39, 997 287
Mountain	450 7, 947	23, 141 891, 584	46, 999 1, 204, 014	. 492	4, 726 1, 381, 629

During the period, March 15, 1934, to July 15, 1935, materials were ordered, costing more than \$42,000,000. Of this total, approximately 50 percent was for steel-works and rolling-mill products. From June 15 to July 15 total orders were placed amounting to nearly \$1,500,000; of this figure, structural and reinforcing steel accounted for more than 20 percent. Other products which were important with respect to the value of orders placed since March 15, 1934, include foundry and machine-shop products, cement, concrete products, copper products, lumber and timber products, explosives, and electrical machinery, apparatus, and supplies.

Construction Projects Financed from Regular Governmental Appropriations

THE number of workers employed at the site of construction projects financed by appropriations made by Congress direct to the executive departments and agencies of the Federal Government was in excess of 25,000 for July. This represents a decrease of approximately 400 in comparison with employment in June. Disbursements for pay rolls during the month were over \$1,890,000.

Whenever a construction contract is awarded or force-account work is started by a department or unit of the Federal Government, the Bureau of Labor Statistics is immediately notified on forms supplied by the Bureau, of the name and address of the contractor, the amount of the contract, and the type of work to be performed. Schedules are then mailed by the Bureau to the contractor or Government agency doing the work. These schedules are filled in and returned to the Bureau and show the number of men on pay rolls, the amounts disbursed for pay, the number of man-hours worked on the project, and the value of the different types of materials for which orders have been placed during the month.

The following tables present data concerning such construction projects on which work has started since July 1, 1934. The Bureau

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In table 19 information is given for the month of July 1935 con. cerning employment, pay rolls, and man-hours worked on construction projects financed from direct appropriations made to the various Federal departments and agencies and started since July 1, 1934, by type of project.

Table 19.- Employment on Construction Projects Financed from Regular Governmental Appropriations, by Type of Project, July 1935

	Wage 6	earners			-	
Type of project	Maxi- mum number em- ployed 1	Weekly	Amount of pay rolls	Number of man- hours worked	Average earnings per hour	Value of material orders placed
All projects	2 25, 788	23, 508	\$1, 890, 209	2, 752, 801	\$0. 687	\$3, 079, 61
Building construction Naval vessels Public roads 3 Reclamation River, harbor, and flood control Streets and roads Water and sewerage Miscellaneous	6, 930 5, 430 (4) 362 4, 631 1, 343 109 1, 206	5, 701 5, 247 5, 777 266 4, 317 1, 114 92 994	5, 745	627, 614	. 746 . 846 . 650 . 586 . 531 . 485 . 747 . 620	593, 08 1, 326, 26 660, 10 27, 94 328, 85 44, 57 6, 81 91, 93

1 Maximum number employed during any 1 week of the month by each contractor and Government

agency doing force-account work.

Includes weekly average for public roads.

Estimated by the Bureau of Public Roads.

Not available; average number included in total.

Statistics concerning employment, pay rolls, and man-hours worked on construction projects financed from regular governmental appropriations in July are given in table 20, by geographic divisions.

Table 20.- Employment on Construction Projects Financed from Regular Governmental Appropriations, by Geographic Division, July 1935

Charles County to	Wage earners			Number	Aver-	Value of
Geographic division	Maximum number employed 1	Weekly	Amount of pay rolls	of man- hours worked	earn- ings per hour	material orders placed
All divisions	25, 788	23, 508	\$1, 890, 209	2, 752, 801	\$0.687	\$3, 079, 61
New England Middle Atlantic East North Central. West North Central. South Atlantic East South Central. West South Central.	2, 585 3, 317 2, 427 2, 096 5, 806 997 2, 395	2, 424 2, 948 2, 178 1, 839 5, 123 869 2, 175	238, 634 268, 692 138, 237 103, 098 501, 546 43, 622 127, 492	299, 353 341, 502 210, 820 185, 280 712, 142 78, 666 253, 433	. 797 . 787 . 656 . 556 . 704 . 555 . 503	441, 80 519, 55 98, 33 149, 56 809, 07 72, 43 143, 17
MountainPacificOutside continental United States	2, 968 2, 834 363	2, 855 2, 758 339	202, 637 234, 257 31, 994	308, 828 306, 208 56, 569	. 656 . 765 . 566	34, 9 148, 3 2, 2

1 Maximum number employed during any 1 week of the month by each contractor and Government

agency doing force-account work.

Includes \$660,101 estimated value of orders placed for public-roads projects which cannot be charged to any specific geographic division.

The upward trend of employment, beginning in January 1935, on construction projects financed from regular governmental appropriations was interrupted in July. With the exception of the previous month, however, more wage earners were employed in July than in any month of the current year. The average earnings per hour in July—69 cents—were the highest for any month since August 1934.

The value of materials for which orders have been placed for use on construction projects financed from direct governmental appropriations from July 1, 1934, to July 15, 1935, amounted to over

\$26,000,000.

Unemployment in Foreign Countries

THE table following gives statistics of unemployment in foreign countries, as shown in official reports for the years 1928 to 1934, and by months beginning with July 1934 to the latest available date.

As compared with midsummer 1934, the series show a reduction in unemployment at the same season in 1935 in a number of the major industrial countries including Austria, Belgium, Germany, Great Britain, and Italy. However, this downward trend has not characterized the movement in Czechoslovakia, France, the Netherlands, Poland, Switzerland, and certain of the eastern European countries, where unemployment has increased as measured by the official statistics covering either unemployed registered or figures for particular unemployed groups in the population. There is a third but small group of countries where unemployment has remained approximately stationary measured in terms of the 1-year period, as, for example, New Zealand and Norway.

Official organs of the British Government have called attention to the reduction in number of persons registered with employment exchanges in Great Britain to below 2 million at the end of July 1935

for the first time in a period of some years. The reduction in unemployment, from 2,000,110 in June to 1,972,941 in July, occurred in a month when there is ordinarily a recession in employment. The 1.4 percent decrease between June and July compares favorably with the increase in 1934 when the number registered rose from 2,092,586 in June to 2,126,260 in July, or by 1.6 percent. In Germany, throughout the first 8 months of 1935, the registered unemployed have been fewer in number than in the same months of 1934, no doubt reflecting

the removal of young workers from employment to make room for older unemployed and the resumption of manufacturing in the durable-goods industries where there has been a marked increase in

activity in recent months. A similar decrease in unemployment has occurred in Italy owing in part to the absorption of men into the

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441, 806 519, 553 98, 330 149, 563 809, 071 72, 430

72, 430 143, 175 34, 977 148, 399 2, 213

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military service. Growing unemployment in France and the Nether. lands has accompanied the deepening of the industrial depression and monetary difficulties. In Belgium devaluation of the franc and various economic reforms were followed by better employment conditions.

Yes

1929 - -1930 - -1931 - -1932 - -1933 - -1934 - -

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Beyond comparisons of the figures in a single series for different periods it is not possible to use the official unemployment statistics to measure volume of unemployment in a single country or to compare conditions in one country with those in another, owing to the fact that the coverage is not always complete. For example, only insured persons may be reported, or certain categories, such as agricultural labor, may be excluded.

Statement of Unemployment in Foreign Countries

South the grant attack a	Austi	ralia	Austria	Belgium				
Bilaniar & work so			Compul- sory insur- ance, num- ber of un- employed	Unemployment-insurance societies				
Year and date (end of month) 1928 1929 1930 1931 1932 1933 1934				Wholly unemployed		Partially unemployed		
	Number	Percent	in receipt of benefit	Number	Percent	Number	Percent	
	45, 669 47, 359 84, 767 117, 866 120, 454 104, 035 86, 865	10.8 11.1 19.3 27.4 29.4 25.1 20.5	11.1 164, 509 9.3 208, 389 17.4 253, 368 19.4 309, 969 15.1 328, 844	5, 386 8, 462 23, 250 79, 186 10.9 161, 468 168, 023 17.0 182, 855 19.0	1.3 3.6 10.9 19.0 17.0	22, 293 18, 831 50, 918 121, 890 175, 259 170, 023 166, 229	3.5 3.0 7.9 16.9 20.7 17.2	
July	86, 652	20.4	257, 213 248, 066 243, 874 249, 275 275, 116 308, 106	167, 979 164, 969 173, 118 173, 368 193, 212 212, 713	17.4 17.1 17.9 18.0 20.2 22.2	175, 974 169, 255 156, 408 153, 412 150, 997 167, 562	18.2 17.1 16.2 15.1 17.2	
January February March April May June July August	80, 548 77, 090	18.6	334, 337 334, 658 314, 923 286, 748 255, 646 238, 133 220, 599 209, 493	223, 300 220, 777 206, 511 181, 110 159, 551 146, 581	23.6 23.4 21.8 19.3 17.1 15.8	158, 406 157, 160 148, 408 127, 419 114, 534 104, 066	16.1 16.1 15.1 13.1 12.1	

TREND OF EMPLOYMENT AND PAY ROLLS

etement of Unemployment in Foreign Countries-Continued

of the fin	Canada	Cze	choslovakir		Danz Free C	City	De	nm	ark
Year and date (end of month)	Percent of trade- unionists unem-	Number of unem- ployed on live reg-	Trade-unic ance fur employe ceipt of l	ds—un-	Num of une ploy registe	em-		men	on unem- t funds— yed
m Ej s	ployed	ister	Number	Percent			Numb	er	Percent
1928	11. 1 16. 8 22. 0	38, 636 41, 630 105, 442 291, 332 554, 059 738, 267 676, 994	16, 342 23, 763 52, 047 102, 179 184, 555 247, 613 245, 953	1. 4 2. 2 4. 6 8. 3 13. 5 16. 9 17. 4	18 24 33 31	2, 905 3, 291 4, 898 3, 244 4, 408 0, 326	50, 2 42, 8 39, 6 53, 6 99, 8 97, 4	817 831 019 508 417	18. 5 15. 5 13. 7 17. 9 31. 7 28. 8 22. 2
JulyAugustSeptemberOctoberNovemberDecember	16. 5 16. 4 16. 2 17. 5	569, 450 572, 428 576, 267 599, 464 668, 937 752, 328	226, 711 233, 227 230, 224 217, 741 231, 314 271, 110	15. 8 16. 3 16. 1 15. 5 16. 4 19. 0	16 16 18 20	5, 852 6, 941 6, 588 8, 835 0, 395 2, 585	56, 57, 61, 68, 86, 94,	875 348 509 201	15. 3 15. 5 16. 4 18. 3 22. 6 29. 7
1935 January February March April May June July August	18. 2 16. 7 17. 0 15. 9 15. 4 15. 1	804, 794 734, 550 666, 433 605, 956	303, 253 299, 718 281, 982 261, 307 236, 537 212, 786	21. 0 20. 8 19. 4 17. 6 16. 0 14. 3	2 11 11 11 11	3, 032 1, 077 8, 611 8, 410 8, 353 6, 212 4, 341	70, 55, 48,	961 342 397 504 855 937	29. 5 27. 1 22. 3 18. 6 14. 4 12. 6 12. 6 14. 5
		Estonia	Finland	Fre	nce	Ger	many	Gre	at Britain
Year and date (end of n	nonth)	Number unem- ployed re- maining on live register	Number of unem- ployed registered	of u	mber nem- ed in ipt of nefit	of u	mber nem- oyed stered	per iste em	umber of rsons reg- ered with ployment changes
1928		2, 629 3, 181 3, 054 3, 632 7, 121 8, 210 2, 970	1, 73 3, 90 7, 94 11, 55 17, 58 17, 13 10, 0	06 03 22 31 23 29 2	4, 834 928 2, 514 56, 112 273, 412 276, 033 442, 165	1, 6 3, 1 4, 8 5, 8 4, 7	353, 000 378, 824 144, 910 573, 218 579, 858 733, 014 557, 688		1, 355, 000 1, 281, 000 2, 297, 000 2, 668, 000 2, 757, 000 2, 520, 616
July 1934 August September October November December		838	5, 60 6, 0 6, 8 7, 6 9, 7 10, 6	84 34 29 08	320, 427 325, 655 323, 132 343, 795 369, 248 418, 933	2, 2, 2, 2, 2,	426, 014 397, 562 281, 800 267, 657 352, 662 604, 700		2, 126, 260 2, 136, 578 2, 081, 987 2, 119, 635 2, 120, 785 2, 085, 815
January 1935 February March April May June July August		3, 121 2, 247 1, 358	3, 9	80 80 69 04 48 22	478, 844 502, 668 483, 866 452, 007 428, 126 402, 661 380, 960 380, 296	2, 22, 22, 22, 31, 31,	973, 544 764, 152 401, 889 233, 255 019, 293 876, 579 754, 117 706, 205		2, 325, 373 2, 285, 463 2, 153, 870 3 2, 044, 460 2, 044, 753 2, 000, 110 1, 972, 94 1, 947, 96

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Statement of Unemployment in Foreign Countries-Continued

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1	Co	mpulsory	insurance					
Year and date (end of month)	Wholly u	inem-	Temporary stoppages		Employ- ment ex- changes, applica-	Trade-unionists unemployed		
	Number	Percent	Number	Percent	tions for work	Christian (Buda- pest)	Social Demo- cratie	
1932 1933 1934	980, 326 994, 091 1, 467, 347 2, 129, 359 2, 272, 590 2, 110, 090 1, 801, 913	8. 2 8. 2 11. 8 16. 7 17. 6 16. 4 13. 9	309, 903 268, 400 526, 604 587, 494 573, 805 456, 678 368, 906	2.6 2.2 4.3 4.6 4.5 3.5 2.9	14, 715 15, 173 43, 592 52, 305 66, 235 60, 595 52, 157	852 951 977 1, 026 1, 085 996	15, 322 21, 330 27, 635 29, 771 26, 714 22, 291	
September	1, 663, 463 1, 672, 742 1, 721, 737 1, 776, 244 1, 807, 661 1, 793, 047	12. 9 13. 0 13. 4 13. 7 13. 9 13. 8	498, 782 462, 413 358, 599 342, 896 314, 638 293, 400	3.9 3.6 2.7 2.7 2.5 2.3	45, 486 48, 365 46, 715 52, 987 53, 641 53, 168	935 959 911 927 1,039 1,045	21, 212 20, 737 20, 058 19, 410 19, 611 20, 986	
January 1935 February March April June July August	1, 744, 814	14. 9 14. 8 14. 0 13. 5 13. 1 12. 6 12. 3	360, 309 358, 974 323, 522 285, 458 320, 511 367, 963 402, 271 344, 767	2.8 2.7 2.5 2.2 2.5 2.9 3.1 2.6	54, 368 55, 247 58, 008 55, 361 52, 605 50, 504 46, 069	1, 046 1, 006 1, 014 983 955 898 851	20, 95 21, 05 19, 77 19, 75 18, 95 18, 44 18, 31	
The same of the sa	Irish Free State	Italy		Japan	Latvia	Nethe	rlands	
Year and date (end of month)	Compulsory insurance number unem-	Number unem ployed register wholl	Officia une ed	al estimate employed	Numbe unem- ployed remain- ing on li	insura cieties- plo	ployment ance so- s—unem- oyed	
	ployed	ployed	Num	ber Perce			Percer	
1928	20, 860 22, 176 25, 230 4 62, 817	324, 4 300, 7 425, 4 734, 4 1, 006, 4 1, 018, 9 963, 6	87 37 368, 54 413, 42 489, 55 413,	248 5. 168 6.	4, 7 5, 6 2 4, 8 9 8, 7 9 14, 5 7 8, 1 4, 9	17 27, 775 51 41, 281 09 96, 751 82 177, 557 56 176, 429	7. 9 1 18 7 30 31	
July	4 98, 252 4 110, 186 4 117, 057 4 123, 890		70 367, 45 365, 14 365, 44 360,	950 4. 596 4. 291 4. 104 4.	9 9	12 162, 993	31 31 32 33 33 33	
January 1935 February March April May June July August	4 141, 626 4 137, 870 4 125, 847 4 124, 920 4 130, 244 4 82, 371	955, 5 853, 1 803, 0 755, 3 638, 1 637, 9	33 374, 89 367, 54	933 5. 542 4.	3, 2	08 225, 370 51 191, 115 75 166, 502 163, 718 112 159, 411	0 40 5 34 2 3 8 3 1 3	

Provisional figure.
 Registration area extended.

TREND OF EMPLOYMENT AND PAY ROLLS

Statement of Unemployment in Foreign Countries-Continued

		New Zea- land		Norway	,	Pols	and F	tumania
Year and date (end of n	nonth)	Number unem- ployed registered by employ-		nionists ons) un- oyed	Number unemployed remaining on live	ploy regist	yed tered em-	Number unem- ployed emaining on live
	er lull	ment ex- changes s	Number	Percent	registe	ployi	ces	register
1928		2, 895 5, 037 41, 430 51, 549 53, 382 47, 028	6, 502 5, 902 7, 175 14, 790 16, 588 15, 963	19. 2 15. 4 16. 6 22. 3 30. 8 33. 4 30. 7	21, 7 19, 0 19, 3 27, 4 32, 7 4 32, 7 5 35, 8	089 12 0853 22 079 29 0705 25 591 24	5, 552 9, 450 6, 659 9, 502 5, 582 9, 660 2, 166	10, 373 7, 288 25, 338 35, 851 38, 890 29, 060 16, 871
1934		50, 026	12, 934 12, 998 13, 690 14, 631 15, 771 17, 792	24. 7 24. 6 25. 6 27. 1 29. 1 32. 8	25, 27, 31, 34, 38, 40, 6	210 26 083 26 292 26 556 33	94, 238 89, 388 89, 220 96, 801 32, 818 98, 173	12, 758 13, 069 11, 795 12, 570 13, 887 16, 523
January 1935 January March April June July August		43, 654 44, 672 46, 551 48, 205 50, 347	18, 809 17, 976 17, 506 17, 221 14, 446 12, 200	32. 6 31. 3 30. 6 25. 5	40, 40, 40, 33,	637 682 450 962 930 3	01, 300 16, 293 08, 027 76, 250 13, 882 96, 949 18, 412 75, 661	20, 669 21, 704 19, 379 15, 140 12, 003
	Saar Ter	aar Ter- ritory Sweden Switzer				erland		Yugo- slavia
Year and date (end of	Numbe	Trade-u		Unemploymen		ment fund	5	Number
month)	of unem ployed regis- tered	1-	Percent		Wholly unemployed		ially ployed	of unem- ployed regis- tered
	11/1-		E. DHO	Number	Percent	Number	Percent	
1928		66 42, 016 64, 815 73 89, 922 97, 316	10. 6 10. 7 12. 2 17. 2 22. 8 23. 7 18. 9		2.1 1.8 3.4 5.9 9.1 10.8 9.8		1. 1 1. 7 7. 2 12. 1 12. 2 8. 5 6. 1	6, 781 8, 465 8, 198 10, 018 14, 761 15, 997 15, 396
July	31, 95 32, 05 32, 07 32, 53 33, 59 35, 63	55 60, 153 77 61, 088 39 71, 417 94 81, 406	13. 7 13. 8 13. 7 15. 7 17. 8 25. 0	36, 000 37, 300 37, 958 42, 100 52, 700 72, 326	7. 1 7. 3 7. 0 8. 2 10. 3 13. 3	29, 700 31, 034 28, 900 30, 300 32, 522	5. 2 5. 5 5. 7 5. 5 5. 7 6. 0	10, 623 9, 918 11, 211 11, 721
January 1935 February March April May June June		100, 839 98, 720 90, 754 82, 221 61, 177 59, 572	21.7 20.3 18.8 16.9	91, 100 88, 600 72, 981 58, 500 50, 600 45, 445	17. 2 16. 8 13. 4 10. 6 9. 1 8. 3	35, 600 36, 600 36, 495 34, 400 30, 800 29, 865	6. 6 6. 8 6. 7 6. 2 5. 5	29, 893 27, 058 16, 112 12, 619
July	- 0	54, 401		20, 110				11, 21

Includes not only workers wholly unemployed but also those intermittently employed.
 Revised figures.
 Included with Germany.

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Social Democratic

15, 322 21, 339 27, 635 29, 772 26, 716 22, 291

21, 212 20, 737 20, 058 19, 410 19, 611 20, 986

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BUILDING OPERATIONS

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Summary of Building Construction Reports for August 1935

INDICATED future expenditures for building construction, as revealed by building permits issued in August, rose to the highest level for any month since October 1931. Indicated expenditures for residential buildings were more than three times as great in August 1935 as in the same month of the preceding year. There were also substantial gains over a year ago in expenditures for new nonresidential buildings and for additions, alterations, and repairs.

Although the number and value of building permits issued at this time of the year usually have a downward trend, August showed a pick-up over July. The largest increase in indicated expenditures occurred in new nonresidential buildings, brought about, for the most part, by a gain in public construction.

The total permit valuation in August 1935 amounted to \$87,770,000 as compared with \$74,208,000 in July 1935 and \$44,633,000 in August 1934.

Comparisons, August 1935 with August 1934

Table 1 presents a summary of building construction in 742 identical cities for August 1934 and August 1935.

Table 1.—Summary of Building Construction in 742 Identical Cities, August 1934 and August 1935

	Numl	ber of build	lings	Estimated cost			
Class of construction	August 1935	August 1934	Percent- age change	August 1935	August 1934	Percent- age change	
All construction	41, 773	33, 810	+23.6	\$87, 356, 133	\$44, 632, 824	+95.7	
New residential buildings. New nonresidential buildings. Additions, alterations, and repairs	5, 684 7, 167 28, 922	2, 040 5, 983 25, 787	+178.6 +19.8 +12.2	27, 433, 092 36, 017, 835 23, 905, 206	8, 917, 617 20, 282, 356 15, 432, 851	+207.6 +77.6 +54.9	

Permits were issued for 3,644 more new residential buildings in August 1935 than in the corresponding month of the previous year. Gains also were shown in the number of new nonresidential buildings and for additions, alterations, and repairs to existing buildings.

The increase in August 1935 over August 1934 in indicated expenditures for new residential buildings exceeded \$18,000,000. Indicated expenditures in August 1935 for new nonresidential buildings and for additions, alterations, and repairs to existing buildings were more than \$15,000,000 and \$8,000,000 greater, respectively, than in the corresponding month of 1934.

Table 2 gives, in summary form, the estimated cost of housekeeping dwellings and the number of families provided for in such dwellings for the months of August 1934 and August 1935.

Table 2.—Summary of Estimated Cost of Housekeeping Dwellings and of the Number of Families Provided for in 742 Identical Cities, August 1934 and

August 1935

A law and the second		cost of hous dwellings	Number of families provided for in new dwellings			
Kind of dwelling	August 1935	August 1934	Percent- age change	August 1935	August 1934	Percent- age change
All types	\$27, 181, 092	\$8, 864, 482	+206.6	7, 117	2, 545	+179.6
1-family 1-2-family 1-2-family 3-2-5	22, 213, 587 1, 069, 630 3, 897, 875	7, 061, 672 409, 870 1, 392, 940	+214.6 +161.0 +179.8	5, 344 414 1, 359	1, 926 146 473	+177. 5 +183. 6 +187. 3

Includes 1-family and 2-family dwellings with stores.
Includes multifamily dwellings with stores.

There were 4,572 more family-dwelling units provided in new buildings in August 1935 than in August 1934. There were pronounced

ings in August 1935 than in August 1934. There were pronounced increases in all types of family-dwelling units over this period. The estimated cost of new housekeeping dwellings was 206.6 percent greater in August 1935 than in the corresponding month of the previous year.

Comparisons, August 1935 with July 1935

A SUMMARY of building construction in 748 identical cities for July and August 1935 is presented in table 3.

Table 3.—Summary of Building Construction in 748 Identical Cities, July and August 1935

time to country of the Broth	Numb	er of build	lings	Estimated cost			
Class of construction	August 1935	July 1935	Per- centage change	August 1935	July 1935	Per- centage change	
All construction	41,947	40, 861	+2.6	\$87, 770, 177	\$74, 207, 567	+18.3	
New residential buildings	5, 776 7, 200 28, 971	5, 114 6, 833 28, 914	+12.9 +4.6 +.2	27, 763, 314 36, 093, 130 23, 913, 733	27, 343, 912 24, 655, 850 22, 207, 805	+1.5 +46.4 +7.7	

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Compared with the previous month, the number of buildings for which permits were issued in August 1935 increased slightly. Esti. mated cost of construction, however, registered a pronounced gain. New residential buildings with an increase in number of 662 had the largest gain for the month. The sharpest increase in indicated ex. penditures occurred in new nonresidential buildings which showed a gain of \$11,437,280, or 46.4 percent, over the figure for the preceding month.

The estimated cost of housekeeping dwellings and the number of families provided therein during July and August 1935 are shown in table 4.

Table 4.—Summary of Estimated Cost of Housekeeping Dwellings and of the Number of Families Provided for in 748 Identical Cities, July and August 1935

		ed cost of houng dwellings		Number of families provided for in new dwellings		
Kind of dwelling	August 1935	July 1935	Percent- age change	August 1935	July 1935	Percentage change
All types	\$27, 511, 314	\$26, 613, 187	+3.4	7, 207	7, 201	+0.1
1-family 1 2-family 1 Multifamily 1	22, 548, 384 1, 069, 630 3, 893, 300	20, 011, 125 1, 265, 116 5, 336, 946	+12.7 -15.5 -27.1	5, 437 414 1, 356		+13.9 -6.5 -31.7

Includes 1-family and 2-family dwellings with stores.
 Includes multifamily dwellings with stores.

A gain of 3.4 percent in the estimated cost of new housekeeping dwellings was registered in August 1935. An increase in expenditures was shown for 1-family dwellings while losses occurred in 2-family and multifamily dwellings. Although the number of families provided for in all types of dwellings in August remained practically the same as in July, a gain of 13.9 percent was shown in the number of families provided for in 1-family dwelling units. This gain, however, was offset by losses in 2-family and multifamily dwelling units.

Important Building Projects

PERMITS were issued during August for the following important building projects: In New York City-in the Borough of the Bronx, for apartment houses to cost over \$630,000; in the Borough of Brooklyn, for apartment houses to cost over \$1,500,000; in the Borough of Manhattan, for office buildings to cost nearly \$1,300,000; in Detroit, Mich., for factory buildings to cost over \$500,000; in Saginaw, Mich. for factory buildings to cost \$360,000; in Louisville, Ky., for factory buildings to cost over \$300,000; and in Fort Worth, Tex., for school buildings to cost over \$300,000.

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Contracts were awarded by the Procurement Division of the United States Treasury Department for a post office in Atlantic City, N. J., to cost over \$400,000; for a post office in the Borough of the Bronx, New York, to cost over \$1,000,000; for the new Interior Department Building in Washington, D. C., to cost nearly \$10,000,000; for a customhouse in Denver, Colo., to cost nearly \$700,000; and for an addition to the United States Mint in San Francisco, Calif., to cost approximately \$1,000,000.

Building Operations in July 1935: Revised Figures

DETAILED figures on building construction, as compiled by the Bureau of Labor Statistics, for the month of July 1935, are presented in this article. The data are the same as published in the pamphlet, except for certain minor revisions or corrections.

Building Construction in Principal Cities

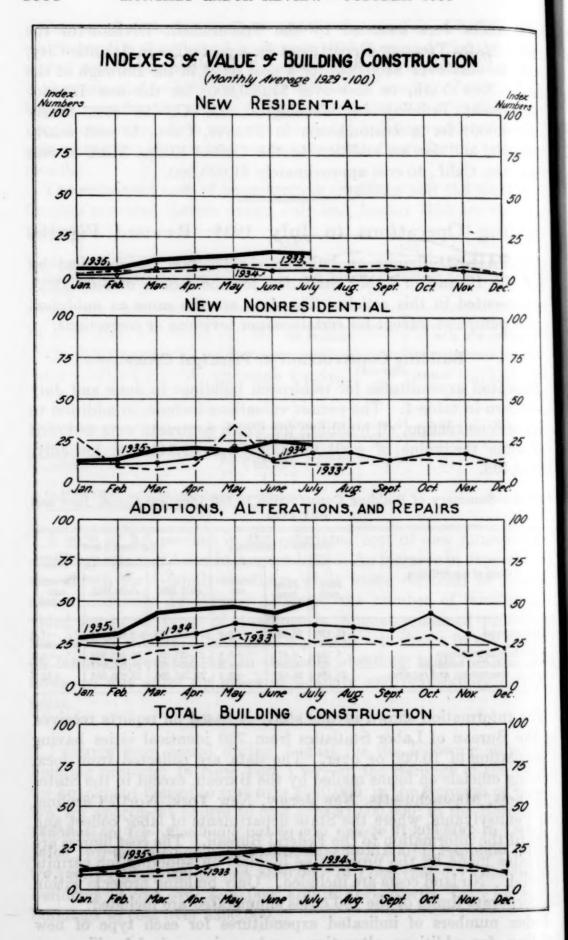
Indicated expenditures for residential buildings in June and July are shown in table 1. The permit valuations include, in addition to private construction, all buildings for which contracts were awarded For June the value of such buildings was \$9,941,084; for July, \$3,740,405.

Table 1.—Summary of Building Construction in 760 Identical Cities, June and July 1935

	Num	ber of bu	ildings	Estimated cost			
Class of construction	July 1935	June 1935	Percent- age change	July 1935	June 1935	Percent- age change	
All construction	41, 120	39, 981	+2.8	\$74, 522, 185	\$75, 287, 355	-1.0	
New residential buildings	5, 135 6, 821 29, 164	4, 871 6, 543 28, 567	+5.4 +4.2 +2.1	27, 423, 021 24, 858, 568 22, 240, 596	28, 942, 825 27, 307, 947 19, 036, 583	-5.3 -9.0 +16.8	

The information shown in this study is based on reports received by the Bureau of Labor Statistics from 760 identical cities having a population of 10,000 or over. The data are collected from local building officials on forms mailed by the Bureau, except in the States of Illinois, Massachusetts, New Jersey, New York, North Carolina, and Pennsylvania, where the State departments of labor collect and forward the information to the Federal Bureau. The cost figures are estimates made by the prospective builders on applying for permits to build. No land costs are included. Only building projects within the corporate limits of the 760 cities enumerated are included.

Index numbers of indicated expenditures for each type of new building, for additions, alterations, and repairs, and of families pro-



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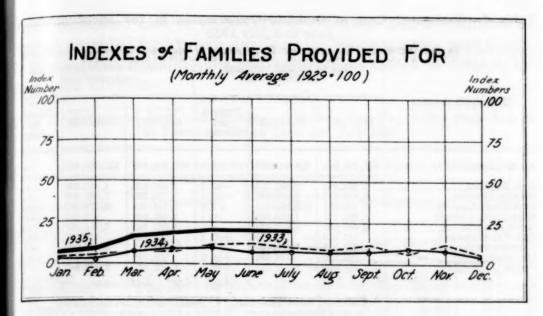
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vided for are given in table 2. The monthly trends for each class of building construction and for families provided for during 1933, 1934, and the first 7 months of 1935 are shown graphically by the accompanying charts.

Table 2.—Index Numbers of Families Provided for and of Indicated Expenditures for Building Construction

(Monthly average, 1929=100.0)

120		Indica	eated expenditures for—				Indicated expenditures for—				
Month	Families pro- vided for	New resi- dential build- ings	New non- resi- dential build- ings	Additions, alterations, and repairs	Total con- struc- tion	Month	Families pro- vided for	New resi- dential build- ings	New non- resi- dential build- ings	Addi- tions, altera- tions, and repairs	Total con- struc- tion
1930 June July	54. 4 49. 9	45. 1 44. 1	82. 5 86. 7	74. 6 77. 4	63. 3 64. 8	JuneJuly	7. 2 7. 8	5. 3 5. 3	12. 6 16. 8	34. 4 35. 8	12. 4 14. 2
June July	43. 4 35. 8	33. 4 27. 6	41. 7 53. 7	56. 5 57. 8	39. 4 41. 7	January February March	7.3 8.5 16.6	5. 1 5. 6 11. 4	11. 1 13. 9 18. 6	27. 9 29. 7 41. 6	10. 9 12. 5 19. 2
1932 June July	10. 6 8. 2	7. 9 5. 6	24. 6 16. 1	28. 2 22. 6	17.3 12.0	April	18. 9 20. 0 20. 8 20. 6	13. 0 14. 2 16. 1 15. 3	21. 2 19. 9 24. 4 22. 2	45. 5 47. 2 43. 6 50. 9	21. 6 22. 0 24. 3 24. 1
JuneJuly	12.3 10.2	8. 8 8. 0	11.5 10.9	33. 3 26. 7	13. 8 12. 2						

Comparisons With the Previous Month, by Geographic Divisions

THE estimated cost of new residential buildings, of new nonresidential buildings, of additions, alterations, and repairs, and of total building construction for which permits were issued during June and July 1935 in 760 identical cities having a population of 10,000 or over, is shown in table 3, by geographic divisions.

Table 3.—Estimated Cost of Building Construction in 760 Identical Cities, June and July 1935

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	Newr	esidential bu (estimated			Ner	w non	residen timate	tial build d cost)	lings
Geographic division	July 1935 June 1935		Perc ag char	0	e July 1		June	1935	Percent. age change
All divisions	\$27, 423, 021	\$28, 942, 85	25 -	-5.3	\$24,85	8, 568	\$27, 30	07, 947	-9.0
New England	6, 858, 452 7, 162, 092 1, 895, 157 3, 486, 069 547, 230 1, 477, 378 789, 800	8, 466, 68 6, 664, 1 1, 893, 66 3, 511, 16 784, 42 1, 456, 76	89 111 -+ 85 44 29 51 ++	27. 2 19. 0 -7. 5 +. 1 7 30. 2 -1. 4 36. 9 12. 2	7, 736 5, 14 2, 486 1, 64 75 96 80	2, 958 6, 233 5, 361 0, 828 7, 342 4, 131 8, 112 5, 746 7, 857	7, 06 2, 77 97 7, 94 2, 20	1, 517, 039 7, 080, 403 2, 775, 967 972, 805 7, 940, 597 445, 396 2, 202, 029 271, 154 4, 132, 557	
		s, alteration (estimated o		To	otal con	structi		imated	
Geographic division	July 1935	June 1935	Per- cent- age change	Ju	ly 1935	Jun	e 1935	Per- cent- age change	Num- ber of cities
All divisions	\$22, 240, 596	\$19, 036, 583	+16.8	\$74,	522, 185	\$75, 2	87, 355	-1.0	7
New England	3,706,770 1,589,998 2,799,349 660,375 948,659	2, 077, 364 6, 154, 597 3, 692, 892 1, 118, 405 2, 055, 295 412, 085 949, 864 453, 242 2, 122, 839	+5.8 +19.1 +.4 +42.2 +36.2 +60.3 1 +4.9 +19.3	21, 16, 5, 7, 1, 3, 2,	441, 291 924, 324 014, 223 965, 983 932, 760 961, 736 394, 149 070, 784 816, 935	21, 7 13, 1 3, 9 13, 4 1, 6 4, 6 1, 3	289, 638 701, 689 32, 970 984, 875 177, 036 141, 910 508, 644 101, 186 149, 407	-13.5 +1.0 +21.9 +49.7 -41.1 +19.5 -26.4 +59.1 +7.3	10 10 11

The number of buildings for which permits were issued in June and July 1935 is classified according to type of construction in table 4 by geographic divisions.

Table 4.—Number of Buildings, Alterations and Repairs, and Total Building Construction in 760 Identical Cities, June and July 1935

	New residential buildings		New nonresidential buildings			Additions, alterations, and repairs			Total construction			
Geographic division	July 1935	June 1935	Per- cent- age change	July 1935	June 1935	Per- cent- age change	July 1935	June 1935	Per- cent- age change	July 1935	June 1935	Per- cent- age chang
All divisions	5, 135	4,871	+5.4	6, 821	6, 543	+4.2	29, 164	28, 567	+2.1	41, 120	39, 981	+2.
New England	409	372	.+9.9		786		3, 213					
Middle Atlantic East North Central.	959 841	1,025	-6.4	1, 257 1, 724	1, 130		6, 321	6, 517 5, 229	-3.0 + 1.3			
West North Central.	506	497	+1.8					2, 456				-4.
South Atlantic	784	749	+4.7	617	585							+7.
East South Central	166	151		170								+11.
West South Central	536	463		345								
Mountain	123 811	148 685	-16.9 +18.4	1,037	181 972		4, 292		-13.6			1 4 4

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1 +2.8 +2.8 -1.6 +2.1 -4.0 +7.9 +11.0 +8.2 The estimated cost of housekeeping dwellings and the number of families provided for by such dwellings for which permits were issued in 760 identical cities in June and July 1935 is shown in table 5, by geographic divisions.

Table 5.—Estimated Cost and Number of Family-Dwelling Units Provided in 760 Identical Cities, June and July 1935

	11 1 1 1 1 1	1-family dw	vellings		2-1	family dwell	lings 1	
Geographic division	Estima	ted cost	Familie vided	s pro-	Estimat	ed cost	Familie vided	
	July 1935	June 1935	July 1935	June 1935	July 1935	June 1935	July 1935	June 1935
New England	\$1, 823, 448 4, 258, 266 4, 089, 456 1, 814, 429 3, 007, 474 522, 530 1, 306, 148 510, 100 2, 810, 083	\$1, 968, 635 4, 294, 289 3, 812, 471 1, 843, 565 2, 657, 674 405, 929 1, 233, 476 549, 940 2, 591, 711	387 899 787 469 715 160 492 116 754	357 937 729 485 643 133 418 143 645	\$137, 700 297, 186 168, 000 60, 228 164, 195 17, 700 153, 720 10, 700 260, 487	\$47, 300 418, 900 208, 600 26, 500 212, 370 2, 000 118, 275 26, 850 187, 250	42 70 42 20 86 10 76 4 86	14 121 46 16 103 2 64 10 60
Total Percentage change	20, 141, 934 +4. 1	19, 357, 690	4,779 +6.4	4, 490	1, 269, 916 +1. 8	1, 248, 045	436	436
	М	ultifamily (iwellings [‡]		Total, a	all kinds of h	ousekeej gs	ping
Geographic division	Estima	ated cost	Familie		Estima	ted cost	Familes provided for	
	July 1935	June 1935	July 1935	June 1935	July 1935	June 1935	July 1935	June 1935
New England Middle Atlantic East North Central South Atlantic East South Central West South Central Mountain Pacific	\$2, 282, 000 2, 483, 921 15, 500 314, 400 7, 000 9, 000 27, 000 151, 625	\$29, 300 3, 703, 500 2, 598, 040 23, 600 641, 100 376, 500 105, 000 0 112, 500	1,056 12 139 4 4 12	12 1, 092 688 9 257 158 45 0 53	\$1, 961, 148 6, 837, 452 6, 741, 377 1, 890, 157 3, 486, 069 547, 230 1, 468, 868 547, 800 3, 222, 195	\$2,045,235 8,416,689 6,619,111 1,893,665 3,511,144 784,429 1,456,751 576,790 2,891,461	429 1, 643 1, 885 501 940 174 572 132 906	383 2, 150 1, 463 510 1, 003 293 527 153 758
Total	5, 290, 446 -30. 3		1,976 -15.0	2, 314	26, 702, 296 -5. 3	28, 195, 275	7, 182 -0. 8	7, 240

¹ Includes 1- and 2-family dwellings with stores.

Comparisons With Year Ago, by Geographic Divisions

Table 6 compares the estimated cost of new residential buildings, of new nonresidential buildings, of additions, alterations, and repairs, and of total building construction in 753 identical cities having a population of 10,000 or over in July 1935 with the cost of the same types of building during July of the previous year.

³ Includes multifamily dwellings with stores.

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Table 6.—Estimated Cost of Building Construction in 753 Identical Cities, July 1934 and July 1935

San I of the last and	New reside	ential buildin	gs (estim	ated	New	nonres	identi	al buildin	igs (estj.
		mated cost)							
Geographic division	July 1935	July 1935 July 1934		ntage	July 1935		July 1934		Percent- age change
All divisions	\$27, 397, 689	\$8,699,86	3 +2	214. 9	\$24, 8	36, 538	\$20, 9	968, 384	+18.4
New England Middle Atlantic East North Central West North Central South Atlantic	6, 868, 852 7, 154, 292 1, 848, 024 3, 463, 066	3, 390, 91 963, 84 453, 54 959, 62	3 +1 4 +6 10 +3 23 +3	-47. 0 102. 6 842. 3 307. 5 260. 9	7, 7, 5, 1; 2, 4 1, 6	82, 758 35, 233 28, 811 76, 473 46, 992	6, 3, 1, 1, 1,	936, 222 452, 879 741, 280 105, 328 110, 379	-74.0 +19.0 +37. +124. +48.0
East South Central West South Central Mountain Pacific	1, 477, 378 836, 500	8 469, 44 0 177, 83	14 +3	4 +214.7 3 +370.4		754, 131 968, 112 806, 171 4, 037, 857		544, 620 513, 846 873, 545 690, 285	+38.5 +88.4 -7.1 +138.9
1 1 22	Additions, alterations and repairs (estimated cost)				otal construction (estimated cost)				Num
Geographic division	July 1935	July 1935 July 1934		Percentage July		uly 1935 July		Percent age change	ber of
All divisions	\$22, 171, 151	\$16, 317, 544	+35.9	\$74, 4	05, 378	\$45, 98	5, 791	+61.8	7
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain	7, 329, 399 3, 644, 670 1, 584, 393 2, 796, 349 660, 375 948, 659	1, 822, 715 5, 805, 906 2, 275, 839 872, 381 1, 977, 814 424, 322 891, 884 362, 287	+20.5 +26.2 +60.1 +81.6 +41.4 +55.6 +6.4 +31.6	21, 9 15, 9 5, 9 7, 9 1, 9 3, 3	36, 391 33, 484 227, 773 08, 891 06, 410 61, 736 894, 149	15, 64 6, 96 2, 43 4, 04 1, 06 1, 85	39, 688 19, 698 30, 963 31, 249 17, 816 30, 851 75, 174 13, 665	-32.8 +40.2 +128.2 +143.0 +95.3 +84.6 +81.0 +49.9	

The number of new residential buildings, of new nonresidential buildings, of additions, alterations, and repairs, and of total building construction for which permits were issued in 753 identical cities is shown in table 7 for July 1934 and July 1935, by geographic divisions.

Table 7.—Number of Buildings, Alterations, and Repairs, and Total Building Construction in 753 Identical Cities, July 1934 and July 1935

auth tain t		New residential buildings		New nonresiden- tial buildings			Additions, altera- tions, and repairs			Total construction		
Geographic division	July 1935	July 1934	Per- cent- age change	July 1935	July 1934	Per- cent- age change	July 1935	July 1934	Per- cent- age change	July 1935	July 1934	Per- cent age chan
All divisions	5, 124	1, 808	+183.4	6, 796	5, 257	+29.3	29, 150	22, 984	+26.8	41, 070	30, 049	+36
New England Middle Atlantic East North Central West North Central. South Atlantic East South Central West South Central Mountain Pacific	408 962 838 489 774 166 536 140 811	364 202 157 249 58 206 45	+61. 9 +164. 3 +314. 9 +211. 5 +210. 8 +186. 2 +160. 2 +211. 1 +194. 9	785 615 170	1, 111 536	+9.5 +54.4 +40.9 +34.0 +50.4 +25.9 +33.8	5, 292 2, 214 3, 662 1, 386	6, 189 3, 425 1, 431 3, 117 1, 186 1, 367 516	+2.1 +54.5 +54.7 +17.5 +16.9 +43.0 +58.1	8, 535 7, 845 3, 458 5, 051 1, 722 2, 836 1, 130	7, 696 4, 738 2, 124 3, 825 1, 357 1, 847 691	+10 +60 +60 +30 +20 +30 +30 +30 +30 +30 +30 +30 +30 +30 +3

Table 8 shows, by geographic divisions, the number and estimated cost of new family-dwelling units provided in housekeeping dwellings for which permits were issued in 753 identical cities in July 1934 and July 1935.

Table 8 .- Estimated Cost and Number of Family-Dwelling Units Provided in 753 Identical Cities, July 1934 and July 1935

and the second	1, 1, 13	1-family dw	ellings		2-1	family dwell	lings 1	
Geographic division	Estima	ted cost	Familie	s pro-	Estima	ted cost	Familie vided	s pro- for
N. Statem	July 1935	July 1934	July 1935	July 1934	July 1935	July 1934	July 1935	July 1934
New England	4, 288, 666 4, 081, 656 1, 767, 297 2, 984, 474 522, 530 1, 306, 148 537, 800	\$1, 210, 351 1, 581, 988 913, 170 452, 040 856, 623 77, 909 442, 894 173, 833 801, 956	385 902 784 475 705 160 492 129 754	238 315 193 156 235 57 197 44 257	\$137, 700 297, 186 168, 000 60, 228 164, 195 17, 700 153, 720 29, 700 260, 487	\$60, 400 228, 875 33, 000 1, 500 68, 800 20, 850 4, 000 47, 050	42 70 42 20 86 10 76 12 86	24 57 9 2 18 0 14 2 29
Total Percentage change		6, 510, 764	4,786 +182.9	1, 692	1, 288, 916 +177. 5	464, 475	444 +186. 5	155
	м	ultifamily d	wellings 2		Total,	all kinds of l dwelling		ping
Geographic division	Estima	timated cost Families provided for			Estima	ated cost	Familie	
	July 1935	July 1934	July 1935	July 1934	July 1935	July 1934	July 1935	July 1934
New England	27, 000	1, 580, 050 17, 674 0 34, 200 14, 000 5, 700	0 674 1,056 12 139 4 4 12 66	8 656 14 0 15 3 10 0	\$1, 956, 648 6, 847, 852 6, 733, 577 1, 843, 025 3, 463, 069 547, 230 1, 468, 868 594, 500 3, 222, 195	\$1, 305, 751 3, 390, 913 963, 844 453, 540 959, 623 91, 909 469, 444 177, 833 862, 006	427 1, 646 1, 882 507 930 174 572 153 906	270 1, 028 216 158 268 60 221 46 303
Total Percentage change			1, 967 +172. 1	723	26, 676, 964 +207. 5		7, 197 +180. 0	2, 570
	Annual Contract	A CONTRACTOR OF THE PARTY OF TH			1	1	1	1

Includes 1- and 2-family dwellings with stores.
 Includes multifamily dwellings with stores.

Construction from Public Funds

During July contracts were awarded by the Public Works Administration for construction projects valued at approximately \$45,000,000, as compared with more than \$130,000,000 during the previous month.

The value of awards from regular governmental appropriations totaled more than \$9,000,000, approximately the same as for June.

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Data concerning the value of contracts awarded and force-account work started during the months of June and July 1935, for Federal construction projects financed from Public Works Administration funds, are shown in table 9, by geographic divisions.

Table 9.-Value of Contracts Awarded for Federal Construction Projects Financed from Public Works Administration Funds 1

Geographic divisions	Building co	nstruction	Public	roads 3	River, harbor control p	, and flood.
	July 1935	June 1935	July 1935	June 1935	July 1935	June 1935
All divisions	\$3, 805, 685	\$5, 951, 995	\$10, 445, 214	\$11, 166, 862	\$6, 717, 651	\$68, 744, 675
New England	0 62, 345 2, 444, 571 31, 538 445, 760 204, 535 9, 183 7, 501 600, 252	2, 366 403, 896 2, 504, 564 0 2, 456, 301 439, 627 48, 923 24, 342 6, 171	729, 498 57, 736 1, 456, 548 2, 818, 290 1, 528, 585 1, 279, 623 637, 124 1, 672, 731 265, 079	667, 604 169, 991 2, 260, 668 692, 370 2, 861, 491 1, 178, 939 1, 298, 966 963, 221 1, 073, 612	25, 000 5, 755, 810 327, 237 101, 068 271, 361 0 237, 175	151, 189 150, 944 6, 313, 528 58, 455, 825 195, 312 0 42, 375 3, 435, 502
Outside continental United States	0	65, 805	0	0	0	0
	Streets a	nd roads	Naval	vessels	Reclamatio	n projects
Geographic divisions	July 1935	June 1935	July 1935	June 1935	July 1935	June 1935
All divisions	\$634, 254	\$206, 422	\$116,000	\$11, 919, 948	\$4, 348, 572	\$6, 952, 208
New England	0	0	30, 000	0	0	
Middle Atlantic	59, 560	6,977	30,000	0	0	i
East North Central	0	0	0	0	0	
West North Central	0	0	0	0	50,000	152, 50
South Atlantic	276, 919	59, 853	16,000	11, 919, 948	999 915	180, 00 35, 00
East South Central	268, 807	6, 253	0	0	228, 315	124, 98
Mountain.	0	0	0	0	4, 000, 262	4, 950, 27
Pacific.	0	69, 459	40,000	0	69, 995	1, 500, 44
Outside continental		00, 200	20,000		00,000	2,000,11
United States	28, 968	63, 880	0	0	0	
	Water and	l sewerage ems	Misce	laneous	To	otal
Geographic divisions			0.00			
MEX I WE SHAWA	July 1925	June 1935	July 1935	June 1935	July 1935	June 1935
All divisions.	\$67, 937	\$17,680	* \$478, 932	\$348, 863	3 \$26, 614, 245	\$105, 308, 63
New England	0	1, 477	2, 108	16, 114	761, 606	838,7
Middle Atlantic	ő	1, 700				806, 2
East North Central	3,000	1,100	14, 973	14, 199	9, 674, 902	11, 092, 9
West North Central	0	0		163, 817	3, 290, 439	59, 464, 5
South Atlantic	29, 937	0	52, 640	14, 525	2, 450, 909	17, 687, 4
East South Central	0	3,800			1, 991, 872	1, 673, 8
West South Central.	0	0				1, 476, 8
Mountain	35, 000	6, 683				6,004,8
Pacific.	0	4,000	10, 602	25, 632	1, 223, 103	6, 123,
Outside continental United States	0		3, 846	9, 623	32, 814	139,
Williams Charles						

Preliminary, subject to revision.
 Other than those reported by the Bureau of Public Roads.
 Includes \$266,000 not allocated by geographic divisions.

The value of contracts awarded and force-account work started during June and July 1935 is shown in table 10 for non-Federal construction projects to be financed from Public Works Administration funds.

Table 10 .- Value of Contracts Awarded for Non-Federal Construction Projects Financed from Public Works Administration Funds 1

Geographic division	Building e	onstruction	Streets a	nd roads 3	Water and syste	
Geographic division	July 1935	June 1935	July 1935	June 1935	July 1935	June 1935
All divisions	\$8, 389, 821	\$14, 114, 368	\$2, 581, 268	\$3, 165, 427	\$5, 504, 344	\$7, 092, 575
New England Middle Atlantic East North Central	269, 291 4, 404, 067 587, 362	139, 751 6, 398, 932 695, 802	570, 506 138, 667 171, 113	336, 975 248, 974 158, 081	267, 567 442, 737 3, 055, 616	205, 110 913, 517 1, 971, 365
West North Central South Atlantic East South Central West South Central	590, 440 158, 959 285, 680 679, 878	2, 024, 579 1, 377, 143 577, 494 741, 104	173, 261 741, 970 30, 152 0		131, 363 80, 185 249, 054 253, 151	923, 511 1, 000 131, 613 2, 179, 284
Mountain Pacific Outside Continental United States	266, 791 1, 147, 353	629, 453 1, 491, 756 38, 354	755, 599 0	1, 712, 099 23, 947	138, 031 886, 590	236, 452 530, 723
		onstruction repair	Misce	llaneous	То	tal
Geographic division	July 1935	June 1935	July 1935	June 1935	July 1935	June 1935
All divisions	0	\$1, 041, 098	\$2, 327, 669	\$1, 541, 904	\$18, 803, 102	\$26 , 955, 372
New England Middle Atlantic East North Central	0	0	21, 469 56, 704	187, 978 114, 737	1, 206, 051 5, 006, 940 3, 870, 795	732, 430 7, 749, 401 2, 939, 985
West North Central South Atlantic East South Central West South Central	0		37, 447 409, 930	2, 271 56, 396	2, 010, 863 1, 018, 561 974, 716 951, 634	4, 899, 194 1, 396, 730 857, 455 3, 541, 976
Mountain	0	0	470, 121 98, 907	175, 417	874, 993 2, 888, 449	1, 041, 322 3, 734, 578
States	0	0	0	0	0	62, 301

Preliminary, subject to revision.

Other than those reported by the Bureau of Public Roads.

Non-Federal public-works construction projects are financed by loans and grants made by the Public Works Administration. For the most part, these allotments are made to State governments or political subdivisions thereof. Occasionally, however, loans are made to private firms. Most of the loans to commercial concerns have been made to railroad companies. In the case of allotments to States, counties, and cities, the Federal Government grants outright not more than 30 percent of the cost of construction. The remaining 70 percent is financed by the local agency. Sometimes the financial arrangements include a loan by the Public Works Administration. Loans made to both public agencies and commercial firms must be repaid in full within the time specified in the loan contract. Interest is charged on all loans.

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Contracts were awarded during July for the following important non-Federal construction projects financed from Public Works Administration funds: For a sewerage system and sewage-treatment plant in the sanitary district of Chicago valued at over \$1,820,000. and for transmission-line structures, cables, and electrical equipment for the Loup River public power and irrigation district, Platte Valley, Nebr., to cost more than \$730,000. Additional contracts valued at more than \$2,720,000 were awarded for work on the Midtown Hudson Tunnel.

Table 11 gives the value of contracts awarded and force-account work started during June and July 1935 on construction-projects to be financed from appropriations made by the Congress direct to the Federal departments, which are in addition to construction financed from P. W. A. funds.

Table 11.-Value of Contracts for Federal Construction Projects Financed from Regular Governmental Appropriations 1

Geographic division	Building co	nstruction	Public	roads	River, har flood-contro	
.4.	July 1935	June 1935	July 1935	June 1935	July 1935	June 1935
All divisions	\$638, 769	\$4, 380, 327	\$1, 320, 830	\$327, 409	\$5, 291, 629	\$2, 023, 89
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific Outside continental	3, 900 152, 148 18, 593 65, 238 130, 123 3, 150 17, 507 17, 935 45, 345	24, 333 40, 440 10, 094 0 4, 189, 747 8, 807 7, 418 96, 239 0	0 0 0 0 440, 603 0 0 796, 810 83, 417	27, 926 0 0 0 0 0 0 262, 304 37, 179	55, 930 357, 000 97, 109 340, 715 77, 467 498, 616 3, 805, 923 0 58, 809	143, 27 236, 69 67, 75 52, 09 329, 33 39, 39 634, 85
United States	184, 830	3, 249	0	0	0	
Geographic division	Streets an	nd roads 2	Naval	vessels	Reclamatio	on projects
Geographic division	July 1935	June 1935	July 1935	June 1935	July 1935	June 1935
All divisions	\$92, 360	\$78, 237	\$1, 142, 300	\$1,336,100	³ \$194, 700	4 \$129,10
New England	0 0 0 0 3, 190 0 0 0 0 89, 170	78, 237 0 0 0 0 78, 237 0 0	46,000 0 0 42,000 0 0 780,500	98,000 0 98,000 0 0 0 992,300	0 0 0 19, 500 11, 000 20, 000 77, 800 55, 400	9, 7 7, 7 4, 5 67, 0 35, 0
United States	0	0	273, 800	245, 800	0	2

Preliminary, subject to revision.
 Other than those reported by Bureau of Public Roads.
 Includes \$11,000 not allocated by geographic division.
 Includes \$5,200 not allocated by geographic division.

Table 11.—Value of Contracts for Federal Construction Projects Financed from Regular Governmental Appropriations—Continued

Geographic division	Water and syste		Miscella	aneous	Total		
	July 1935	June 1935	July 1935	June 1935	July 1935	June 1935	
All divisions	\$15,940	0	\$317, 132	\$399, 479	3 \$9, 013, 660	4 \$8, 674, 550	
New England	0	0	7,920	7, 881	67, 750	175, 488	
Middle Atlantic East North Central	10, 740	0	17, 797 59, 314	143, 863 468	583, 685	420, 961	
West North Central	2,700	ő	118, 539	1,860	175, 076 427, 953	106, 243 63, 651	
South Atlantic	2,100	Ö	75, 700	200, 829	825, 622	4, 903, 844	
East South Central	0	0	0	198	577, 466	48, 402	
West South Central	0	0	1, 279	0	3, 843, 430	646, 768	
Mountain	0	0	9, 068	1, 198	893, 824	426, 741	
Pacific continental	0	0	27, 515	40, 158	1, 121, 709	1, 625, 179	
United States		0	**********	3, 024	486, 145	252, 073	

¹ Includes \$11,000 not allocated by geographic divisions.
4 Includes \$5,200 not allocated by geographic divisions.

In table 12 is given, by geographic divisions, the value of public-building and highway-construction awards, as reported by the various State governments for July 1934 and June and July 1935.

Table 12.—Value of Public-Building and Highway-Construction Awards as Reported by the State Governments, by Geographic Divisions

Geographic division	Value of a	wards for pu ings	blic build-	Value of a	wards for hig struction	hway con-
4003	July 1935	June 1935	July 1934	July 1935	June 1935	July 1934
All divisions	\$943, 297	\$1,702,557	\$3,017,380	\$8, 902, 774	\$1, 799, 341	\$14, 977, 152
New England	39, 514 165, 108	105, 846 227, 782	1, 171, 783	180, 795 770, 727	29, 986 18, 914	352, 938 1, 636, 431
East North Central	627, 476 10, 416	1, 091, 503 127, 525	497, 914 4, 150	166, 815 245, 053	283, 968 135, 955	2, 976, 44- 430, 24
South Atlantic East South Central	3, 120	73, 014	384, 809 125, 000	383, 627 422, 034	242, 098 89, 035	389, 40 743, 83
West South Central	88, 042 5, 449	15, 533 21, 693	818, 746 10, 537	475, 011 43, 093	234, 525 219, 522	758, 886 109, 883
Pacific	4, 172	39, 661	4, 441	6, 215, 619	545, 338	6, 679, 09

The data presented in the preceding table are in addition to construction projects financed wholly or partially by loans and grants made to State governments by the Public Works Administration.

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Review of Construction in the First Half of 1935

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DURING the first half of 1935 permits were issued for more buildings than for any corresponding period since 1931. The value of buildings for which permits were issued was also greater than for the first 6 months of any year since 1931. This is the first half year since 1929 in which there has been an increase over the previous year in the number and value of buildings for which permits were issued. Compared with the first 6 months of 1934, the increase in the number of residential buildings amounted to 130 percent. At the same time, the value of residential buildings shows an increase of \$48,000,000, or 155 percent. Pronounced increases also occurred in the number and value of new nonresidential buildings, and in additions, alterations, and repairs to existing buildings. The figures published in this section are based on reports received by the Bureau of Labor Statistics from 94 identical cities having a population of 100,000 or over.

A summary of the outstanding developments in building construction during the first half of 1935 as compared with the corresponding period of 1934 is given in table 13.

Table 13.—Summary of Building Construction in 94 Identical Cities, First Half of 1934 and of 1935

	Numbe	er of build	dings	Est	imated cost	
Class of construction	First half 1935	First half 1934	Per- cent- age change	First half 1935	First half 1934	Per- cent- age change
All construction	119, 228	91, 417	+30. 4	\$239, 172, 318	\$151, 8 2 1, 521	+57.5
New residential buildings New nonresidential buildings Additions, alterations, and repairs	11, 887 19, 236 88, 105	5, 184 15, 328 70, 905	+129.3 +25.5 +24.3	92, 016, 870	30, 785, 288 68, 521, 896 52, 514, 337	+155.3 +34.3 +30.6

Comparisons, by Type of Building

THE number and cost of the different types of buildings for which permits were issued in the 94 cities covered during the first 6 months of 1934 and 1935 is given in table 14.

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Table 14.—Number and Cost of New Buildings and of Alterations and Repairs for Which Permits Were Issued in 94 Cities, First Half of 1934 and of 1935, by Kind of Building

All spiriture editate has	Building	gs for which	permits	were issued	Percer	ntage
Kind of building	First h	alf of 1935	First l	nalf of 1934	char	
The state of the s	Num- ber	Cost	Num- ber	Cost	Num- ber	Cost
Residential buildings:	10.000		1 200		1.100.0	
1-family dwellings2-family dwellings	10, 806 517	\$44, 031, 903 2, 934, 522	4,722 307	\$19 062,838 2,034,610	+128.8 +68.4	+131.0 +44.2
stores	54	417, 421	45	241, 395	+20.0	+72.9
Multifamily dwellings	472	27, 521, 873	97	8, 865, 470	+386.6	+210.4
Multifamily dwellings with stores	22	2, 788, 450	6	93, 000	+266.7	+199.8
Hotels	2 3	92, 664 8, 200	1 0	125, 000	+100.0	-25.9
Lodging houses	11	785, 900	6	362, 975	+83.3	+116.5
Total, residential buildings	11, 887	78, 580, 933	5, 184	30, 785, 288	+129.3	+155.3
Nonresidential buildings:						
Amusement buildings	138	3, 885, 297	158	1, 490, 862	-12.7	+160.6
Churches	105	1, 878, 942	84	1, 102, 150	+25.0	+70.5
Factories and workshops	366	9, 097, 420	291	4, 776, 771	+25.8	+90.5
Public garages	124	1, 043, 954	115	1, 030, 335	+7.8	+1.3
Private garages	11, 916	2, 996, 060	8, 593	2, 340, 950	+38.7	+28.0
Service stations	946	2, 751, 627	765	2, 386, 685 2, 618, 189	+23.7	+15.3
Institutions.	19 56	4, 315, 635 1, 308, 225	25 42	10, 436, 139	-24.0 $+33.3$	+04. 8 -87. 5
Office buildingsPublic buildings	126	22 845, 646	82	13, 355, 505	+53.7	+71.1
Public works and utilities	86	13 847, 260	73	4, 114, 790	+17.8	+236. 5
Schools and libraries	148	14, 009, 629	70	10, 190, 065	+111.4	+37.5
Sheds	2, 991	959, 579	2, 983	873, 375	+.3	+9.9
Stables and barns	86	57. 028	184	192, 687	-53.3	-70.4
Stores and warehouses	1,839	11, 796, 562	1,506	9, 978, 558	+22.1	+18.2
All other	290	1, 224, 006	357	634, 835	-18.8	+92.8
Total, nonresidential buildings	19, 236	92, 016, 870	15, 328	68, 521, 896	+25.5	+34.3
Total, new buildings	31, 123	170, 597, 803	20, 512	99, 307, 184	+51.7	+71.8
Additions, alterations, and repairs	88, 105	68, 574, 515	70, 905	52, 514, 337	+24.3	+30.6
Grand total	119, 228	239, 172, 318	91, 417	151, 821, 521	+30.4	+57.8

During the first half of 1935, permits were issued for building operations to cost nearly \$240,000,000, an increase of nearly \$90,000,000 in comparison with the corresponding period of 1934. Of the total permit valuation, \$78,500,000, or 32.9 percent, was expended for residential buildings; \$92,000,000, or 38.5 percent, for new nonresidential buildings; and \$68,500,000, or 28.6 percent, for additions, alterations, and repairs to existing buildings.

Virtually all types of residential buildings shared in the increase. A slight decrease below the previous year's level, however, was reported in the amount expended for hotels.

Indicated expenditures for apartment houses showed a greater increase over the previous year than any other class of residential building. The permit valuation of the two classes of apartment houses for which permits were issued during the first 6 months of 1935 amounted to more than \$30,000,000, compared with less than \$10,000,000 during the corresponding period of 1934.

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Increases in number were registered for all types of nonresidential buildings with the exception of amusement buildings, institutional buildings, and stables and barns. The only types showing decreases in estimated cost were office buildings and stables and barns. The estimated expenditures for public works and utilities showed larger increases than for any other type of nonresidential building. Expenditures for additions, alterations, and repairs advanced from \$52,500,000 in the first half of 1934 to more than \$68,500,000 in 1935.

The number and percent of families provided for in each of the different kinds of dwellings for which permits were issued in the 94 identical cities during the first half of 1934 and 1935 are shown in table 15.

Table 15.—Number and Percent of Families Provided for in New Dwellings for Which Permits Were Issued in 94 Identical Cities, First Half of 1934 and of 1935, by Kind of Dwelling

The second second	Number ings fo	of dwell-		Families p	rovided for	
Kind of dwelling		ts were	Nur	nber	Perce	ntage
	First half 1935	First half 1934	First half 1935	First half 1934	First half 1935	First half 1934
1-family dwellings	10, 806 517	4, 722 307	10, 806 1, 034	4, 722 614	50. 0 4. 8	53.1 7.0
stores Multifamily dwellings Multifamily dwellings with stores	54 472 22	45 97 6	8, 783 922	3, 386 42	40. 6 4. 3	38.
Total	11, 871	5, 177	21, 612	8, 825	100.0	100.

Permits issued for family-dwelling units during the first 6 months of 1935 were more than double those for the same period in 1934. Comparing the first half of 1935 with the first 6 months of 1934, increases were shown in all types of dwelling units. During the first half of 1935, half of the dwelling units were provided in single-family dwellings; this compares with 53½ percent during the first half of 1934. By contrast, the percentage of families provided for in the two types of apartment houses rose from 39 percent during the first half of 1934 to 45 percent during the first half of 1935.

Long-Time Trend in Construction, First Half of 1922-35

THE total number and estimated cost, together with the index numbers of all building operations for which permits were issued in 65 identical cities having a population of 100,000 or over, is given for the first half of each year, 1922 to 1935, inclusive, in table 16.

Table 16.—Number and Estimated Cost of All Buildings for Which Permits Were Issued in 65 Identical Cities, First Half of Each Year, 1922 to 1935

	Bulklin which p were is	ermits	Estimated (cost		Buildin which p were is	ermits	Estimated of	cost
Period	Num- ber	Index num- ber	Amount	Index num- ber	Period	Num- ber	Index num- ber	Amount	Index num- ber
First half of— 1922 1923 1924 1925 1926 1927 1928	243, 479 283, 289 299, 769 289, 014 254, 564 237, 853 216, 509	116 4 123 1 118 7 104 6 97 7	\$1, 062, 464, 771 1, 418, 779, 382 1, 518, 088, 421 1, 620, 413, 012 1, 539, 297, 242 1, 443, 232, 520 1, 462, 560, 722	100. 0 133 5 142. 9 152. 5 144 9 135. 8 137. 7	First half of— 1929 1930 1931 1932 1933 1934 1935	182, 379 146, 410 130, 127 89, 477 75, 699 75, 281 93, 103	60. 1 53. 4 36. 7	577, 931, 724 222, 953, 519 161, 278, 854 137, 977, 632	63. 9 54. 4 21. 0 15. 2 13. 0

In the 65 cities for which a continuous record is available, the aggregate value of the buildings for which permits were issued exceeded \$1,000,000,000 in the first half of each of the 8 years, 1922-29. The high point was reached in 1926 when permit valuation for the first 6 months was \$1,620,413,012. Between 1929 and 1934, however, building operations contracted sharply and in the first 6 months of last year the value of permits issued was only \$137,977,632. For the first half of the current year the value of the buildings for which permits were issued amounted to \$215,321,209, a gain of 56 percent in comparison with the low mark of last year. The value for the first half of 1935 also exceeds the 1933 level by a substantial margin, but is less than in any of the other years for which comparable information is available.

Using 1922 as a base, or 100, the index number of building operations in the first half of 1935 stands at 20.3. This compares with 13.0 in 1934, and 15.2 in 1933.

Information with respect to the number and percentage of families provided for in each of the different kinds of dwellings for which permits were issued in 65 identical cities in the first half of each year, 1922–35 inclusive, is presented in table 17.

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Table 17 .- Number and Percent of Families Provided for in Each Specified Kind of Dwelling in 65 Identical Cities, First Half of Each Year, 1922 to 1935

	Numbe	r of families	provided	for in-	Percenta	nge of famil ded for in-	ies pro-
Period	1-family dwell- ings	2-family dwell- ings ¹	Multi- family dwell- ings ²	All classes of dwell- ings	1-family dwell- ings	2-family dwell- ings 1	Multi famili dwell ings
irst half of—							
1922	63, 892	32, 321	51,006	147, 249	43. 4	22. 0	3
1923	77, 875	39, 314	77, 826	195, 015	39. 9	20, 2	3
1924	82, 514	50, 904	69, 619	203, 037	40.6	25. 1	3
1925	87, 783	39, 320	80, 291	207, 394	42.3	_ 19.0	1
1926	71, 818	26, 727	100, 201	198, 746	36. 1	13. 4	
1927	57, 899	24, 204	95, 448	177, 551	32.6	13. 6	
1928	50, 724	19, 261	111, 268	181, 252	28. 0	10.6	1
1929	36, 237	12, 815	81, 205	130, 257	27.8	9.8	1
1930	20, 410	6, 101	19, 930	46, 441	43.9	13. 1	
1931	20, 334	5, 268	23,870	49, 472	41. 1	10.6	
1932	7,884	1,732	3, 203	12, 819	61. 5	13. 5	
1933		1,056	3, 168	9, 240	54.3	11.4	
1934	4,080	624	3, 428	8, 132	50. 2	7.7	
1935	9, 105	952	9, 560	19, 617	46, 4	4.9	

1 Includes 1- and 2-family dwellings with stores.
2 Includes multifamily dwellings with stores.

More dwelling units were provided during the first half of 1935 in these 65 identical cities than in any similar period since 1931. increase over the first half of the 2 preceding years amounted to more than 100 percent.

Table 18 compares the value of buildings in the five cities leading in total expenditures for building operations for the first half of each year, 1922 to 1935, inclusive.

Table 18.—Cities Leading in Total Expenditures for All Classes of Buildings
During First Half of Each Year, 1922 to 1935

New York City	118, 898, 940 58, 533, 385 55, 855, 545 54, 071, 599 202, 975, 234 41, 953, 917 39, 712, 901
Chicago	118, 898, 940 58, 533, 385 55, 855, 545 54, 071, 599 202, 975, 234 41, 953, 917 39, 712, 901
Chicago	118, 898, 940 58, 533, 385 55, 855, 545 54, 071, 599 202, 975, 234 41, 953, 917 39, 712, 901
Los Angeles	55, 855, 545 54, 071, 599 202, 975, 234 41, 953, 917 39, 712, 901
Philadelphia	202, 975, 234 41, 953, 917 39, 712, 901
1925 1930 1930 New York City	202, 975, 234 41, 953, 917 39, 712, 901
New York City	41, 953, 917 39, 712, 901
Chicago	41, 953, 917 39, 712, 901
Chicago	39, 712, 901
Philadelphia	39, 712, 901
Detroit	
1924 1931 New York City	34, 569, 340 30, 522, 416
New York City	30, 322, 410
Chicago 166, 436, 214 Chicago Detroit 87, 195, 800 Washington Los Angeles 78, 828, 738 Los Angeles Philadelphia 72, 573, 485 Boston New York City 461, 513, 809 Washington Chicago 204, 239, 810 Washington Detroit 89, 562, 885 Washington Philadelphia 83, 175, 457 Baltimore 1926 1933 New York City 510, 263, 696 San Francisco Chicago 183, 577, 891 New York City Detroit 96, 204, 092 New York City Detroit 96, 204, 092 Philadelphia Philadelphia 70, 379, 825 Philadelphia Washington	
Chicago 166, 436, 214 Chicago Detroit 87, 195, 800 Washington Los Angeles 78, 828, 738 Los Angeles Philadelphia 72, 573, 485 Boston 1925 1932 New York City 461, 513, 809 Washington Chicago 204, 239, 810 Washington Detroit 89, 562, 885 Washington Los Angeles Philadelphia Los Angeles Philadelphia Baltimore 1933 New York City 510, 263, 696 Chicago 183, 577, 891 Detroit 96, 204, 092 Philadelphia 70, 379, 825 Philadelphia Washington Los Angeles Philadelphia Los Angeles Philadelphia	234, 253, 030
Detroit	
Tos Angeles	24, 421, 984
Philadelphia	23, 096, 177
New York City 461, 513, 809 Washington Chicago 204, 239, 810 Washington Detroit 89, 562, 885 Philadelphia Los Angeles Los Angeles Philadelphia Baltimore 1926 1933 New York City 510, 263, 696 San Francisco Chicago 183, 577, 891 New York City Detroit 96, 204, 092 Los Angeles Philadelphia 70, 379, 825 Philadelphia Los Angeles Philadelphia Washington	17, 583, 794
Chicago 204, 239, 810 Washington Detroit 89, 562, 885 Los Angeles Philadelphia 85, 884, 680 Philadelphia Los Angeles 83, 175, 457 Baltimore 19#6 19#33 New York City 510, 263, 696 San Francisco Chicago 183, 577, 891 New York City Detroit 96, 204, 092 New York City Philadelphia 70, 379, 825 Philadelphia Los Angeles Philadelphia Washington	
Chicago 204, 239, 810 Washington Detroit 89, 562, 885 Los Angeles Philadelphia 85, 884, 680 Philadelphia Los Angeles 83, 175, 457 Baltimore 19#6 19#33 New York City 510, 263, 696 San Francisco Chicago 183, 577, 891 New York City Detroit 96, 204, 092 New York City Philadelphia 70, 379, 825 Philadelphia Los Angeles Philadelphia Washington	52, 658, 671
Philadelphia	44, 037, 364
Los Angeles 83, 175, 457 Baltimore 1926 1933 New York City 510, 263, 696 San Francisco Chicago 183, 577, 891 New York City Detroit 96, 204, 092 Los Angeles Philadelphia 70, 379, 825 Philadelphia Los Angeles 63, 161, 395 Washington	11, 307, 409
1926 1933 New York City 510, 263, 696 Chicago 183, 577, 891 Detroit 96, 204, 092 Philadelphia 70, 379, 825 Los Angeles Philadelphia Washington	
New York City	7, 521, 309
Chicago	
Chicago	50, 627, 839
Philadelphia	
Los Angeles	
1927	5, 060, 833
New York City 490, 119, 588 New York City	
Chicago	
Detroit	
Philadelphia 61, 683, 600 Baltimore 58, 192, 977 Philadelphia Philadelphia	
1928 1935	4, 004, 01
New York City 557, 561, 891 New York City	
Chicago	
Detroit 65, 175, 361 Los Angeles 63, 195, 840 Detroit	
Los Angeles	15, 495, 61

Details by Cities

Table 19 shows the number and estimated cost of new residential buildings, of new nonresidential buildings, of additions, alterations, and repairs, and of total construction in the first 6 months of 1934 and 1935 for each of the 94 cities for which information is available.

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Grand Bonide Mich

Table 19 .- Number and Estimated Cost of Building Construction in 94 Identical Cities, First 6 Months of 1934 and of 1935

	Z	New residential buildings	tial built	dings	New	New nonresidential baildings	ential bo	nildings	Addit	Additions, alterations, and repairs	tions, ar	nd repairs		Total construction	nstruction	u u
City and State	First	First half of 1935	First	First half of 1934	First	First half of 1935	Firs	First half of 1934	First	First half of 1935	First	First half of 1934	Firs	First half of 1935	Firs	First half of 1934
	Num-	Cost	Num-	Cost	Num- ber	Cost	Number	Cost	Num- ber	Cost	Num- ber	Cost	Num- ber	Cost	Num- ber	Cost
Akron, Ohio. Albany, N. Y. Baltimore, Md. Birmingham, Als.	28228	\$142, 160 428, 500 4, 501, 644 607, 000 57, 350	51248	\$124, 350 178, 500 129, 925 189, 000 7, 100	244 35 182 267 79	\$162, 580 87, 500 374, 015 941, 900 650, 185	178 35 168 177 177	\$121, 480 76, 300 619, 712 2, 594, 400 48, 091	359 805 899 3, 504 1, 892	\$240, 748 483, 921 538, 910 1, 805, 540 529, 910	331 673 885 3, 226 941	\$200, 738 523, 893 941, 692 1, 862, 162 410, 266	636 1, 273 3, 924 1, 991	\$545, 488 997, 921 5, 414, 569 3, 414, 440 1, 237, 445	525 729 1, 101 3, 453 1, 011	\$455, 568 778, 693 1, 691, 329 4, 645, 562 465, 457
Boston, Mass.¹ Bridgeport, Conn. Butfalo, N. Y. Cambridge, Mass. Camden, N. J.	22325	279, 400 130, 225 146, 170 31, 000	822801	463, 500 68, 430 232, 918 0 4, 2.0	163 219 18 88	5, 719, 652 65, 379 814, 441 53, 100 1, 007, 014	25 25 25 25 25 25 25 25 25 25 25 25 25 2	1, 817, 894 98, 045 422, 681 19, 825 210, 606	2,470 197 764 315 251	1, 829, 699 160, 057 411, 251 289, 133 73, 749	2,215 176 596 301 85	2, 133, 037 227, 494 365, 888 178, 844 65, 338	2, 694 1, 009 337 203	7, 828, 751 355, 661 1, 371, 862 373, 233 1, 0.0, 763	2, 453 228 793 819 128	4, 414, 431 393, 969 1, 021, 487 198, 669 280, 194
Canton, Ohio Chattanooga, Tenn Chicago, Ill Cincinnati, Ohio Cleveland, Ohio	112 233 235 75	29, 225 50, 430 867, 800 1, 644, 050 2, 808, 840	82 5 2 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	14, 600 8, 700 335, 581 901, 500 148, 441	16 16 30 30 30 30 30	80, 688 90, 993 4, 547, 147 1, 046, 915 703, 650	23 23 23 23 23 24 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	76, 315 125, 050 2, 541, 550 580, 620 293, 550	215 1, 298 1, 434 1, 612 1, 383	45, 524 190, 535 2, 610, 914 764, 230 911, 854	1,032 1,032 1,323 1,062	86, 190 241, 899 1, 306, 218 442, 529 911, 730	299 2,007 2,169 1,764	155, 437 332, 003 8, 025, 861 3, 455, 195 4, 430, 384	260 1, 599 1, 680 1, 303	177, 105 375, 649 4, 183, 349 1, 924, 649 1, 359, 741
Columbus, Ohio. Dallas, Tex. Dayton, Ohio. Denver, Colo. Des Moines, Iowa.	333 205 205 63	169, 900 787, 050 68, 450 1, 033, 750 284, 263	221 832 82	33, 700 331, 710 10, 000 311, 900 132, 430	216 270 127 325 156	230, 550 296, 618 150, 406 242, 843 450, 065	139 102 336 154	141, 500 380, 267 704, 522 271, 200 242, 539	334 1,095 256 1,155 271	924, 374 544, 751 151, 490 553, 044 250, 827	278 877 190 1,081 200	201, 978 424, 958 213, 742 373, 911 99, 330	1, 698 1, 698 1, 685 1, 685	1, 324, 824 1, 628, 419 370, 346 1, 829, 637 985, 155	1, 220 1, 220 1, 472 427	377, 178 1, 136, 935 928, 264 967, 011 474, 299
Detroit, Mich. Duluth, Minn. Elizabeth, N. J. El Paso, Tex.	040 7 22 1	3, 626, 940 7, 550 139, 100 51, 811 28, 500	187	1, 096, 022 13, 650 62, 200 26, 550 40, 626	1, 285 8 28 8 28 8 28	2, 896, 044 62, 720 120, 110 647, 560 48, 069	88 8 4 8 8 4 8 8	1, 375, 928 36, 115 31, 275 36, 754 27, 301	2, 493 667 97 162 186	2, 114, 887 265, 155 66, 570 154, 747 111, 514	1,818 434 67 109 115	1, 430, 054 274, 116 62, 605 68, 676 56, 780	4, 398 767 179 237 258	8, 677, 871 335, 425 325, 780 854, 118	2, 637 510 110 161 190	3, 902, 004 323, 881 156, 080 131, 980 124, 707
Evansville, Ind. Fall River, Mass. Flint, Mich. Fort Wayne, Ind. Fort Worth, Tex.	25 25 24 127	47, 280 8, 600 78, 829 160, 370 333, 825	3686	30, 700 14, 700 19, 132 25, 355 103, 600	128 40 197 95 102	105, 872 5, 560 150, 385 162, 323 855, 662	08 72 121 48 88	31, 496 90, 133 154, 862 60, 471 171, 320	419 103 833 408 394	164, 192 113, 641 228, 182 194, 919 179, 503	303 124 180 180 235	170, 281 116, 228 173, 480 116, 160 104, 220	563 1,055 527 623	317, 344 127, 801 457, 396 517, 612 1, 368, 990	382 201 994 234 356	232, 477 221, 061 347, 474 201, 986 379, 140

201, 986 379, 140

234

1, 368, 990

527

116, 160

180

194, 919

394

60, 471

888

855, 662

102

25, 355 103, 600

33

333, 825

127

Fort Worth, Tex

			7177777					11.	-
120, 505 210, 305 568, 347 2, 548, 082 736, 265	1, 226, 578 432, 495 129, 555 628, 288 741, 165	1, 117, 364 6, 764, 589 988, 246 134, 510 154, 085	740, 930 989, 681 1, 152, 337 1, 822, 567 653, 750	1, 143, 365 188, 425 374, 860 765, 464	6, 145, 326 10, 522, 040 22, 848, 411 6, 459, 695 2, 590, 614	342, 852 1, 716, 979 867, 953 1, 474, 122 321, 517	407, 974 4, 554, 313 1, 048, 298 1, 405, 342 756, 900		
380 631 928 1, 680	1,861 153 153 163 183	7,442 7,442 394 186	1,060 1,787 1,961 393	352 239 355 355	2, 999 5, 467 1, 737 5, 427 610	1, 110 367 416 496	265 1, 650 1, 144 1, 458 1, 633	341 553 574 1, 787 1, 208	
259, 792 335, 310 1, 216, 617 2, 893, 352 1, 209, 057	1, 226, 382 377, 612 116, 635 2, 235, 250 1, 045, 268	2, 881, 279 15, 495, 617 1, 296, 997 1118, 035 464, 611	1, 526, 800 1, 858, 270 3, 068, 398 2, 355, 089 977, 885	997, 253 109, 350 354, 495 2, 567, 385	10, 837, 533 17, 708, 885 18, 679, 763 14, 328, 747 2, 977, 139	1, 632, 493 6, 171, 826 943, 645 767, 205 421, 574	924, 371 5, 096, 505 2, 482, 904 1, 826, 980 1, 121, 750		
590 502 735 1, 404	2, 558 346 193 539 279	2, 138 9, 808 636 186 220	1, 512 2, 427 1, 839 1, 913 563	462 212 286 502	3, 109 4, 799 2, 068 6, 617 710	376 1,603 571 551 465	1,897 1,307 1,730 1,621	315 715 652 2, 053 1, 350	
75, 345 136, 415 380, 652 148, 877 232, 365	705, 372 188, 195 42, 730 208, 888 140, 816	2, 325, 789 379, 506 117, 770 126, 310	388, 610 507, 788 726, 572 704, 533 154, 332	895, 622 81, 800 100, 535 214, 284	1, 499, 326 3, 975, 572 6, 524, 311 2, 326, 246 275, 750		111,556 1,442,389 649,144 542,725 480,850		
288 1, 393	1, 649 303 130 123	4,770 203 151 153	1,512 1,155 1,155	297 127 130 279	4,759 1,657 4,041	171 832 163 248 455	1, 226 1, 226 978 1, 117 1, 474	309 434 375 1,069 910	
180, 782 160, 200 658, 591 264, 996 397, 934	708, 623 200, 982 48, 845 256, 950 128, 028	4, 313, 702 255, 475 102, 670 140, 454	608, 990 555, 294 987, 905 741, 344 248, 629	616, 515 92, 575 125, 264 567, 703	1, 737, 956 4, 826, 830 8, 576, 188 2, 616, 151 879, 343		189,841 1,552,999 1,146,840 763,090 737,650		
681 756 788	2, 219 306 128 246 164	1,860 6,222 334 153 178	1, 131 1, 900 1, 385 1, 367	374 133 202 399	2,846 3,955 4,051 481	1, 206 259 332,	1,328 1,276 1,266 1,466	292 539 1,004 1,004	
17, 160 44, 390 150, 695 1, 428, 350 354, 060	392, 456 110, 300 47, 175 114, 900 589, 189	236, 500 1, 867, 659 454, 490 6, 240 14, 775	255, 470 214, 493 220, 015 859, 018 452, 843	225, 743 92, 125 197, 325 400, 120	2, 930, 468 (5, 968, 100 2, 067, 899 2, 233, 559		1, 260, 824 209, 499 589, 367 100, 550		
22 75 18 18 258	22483	1, 952 1, 952 157 32 31	181 178 201 280 75	100 109 49 35	562 76 146	101 200 147 117 40	233 121 280 131	30 187 570 256	
46, 510 151, 610 476, 026 775, 321 532, 918	173, 899 69, 330 45, 140 1, 208, 500 765, 612	1, 811, 420 5, 756, 488 371, 597 7, 865 308, 157	846, 560 188, 256 1, 313, 968 868, 785 575, 873	239, 038 16, 775 162, 781 1, 815, 012	3, 412, 227 2, 897, 705 5, 440, 575 4, 699, 296 1, 885, 071	1, 153, 630 4, 706, 756 249, 190 243, 284 101, 212	622, 835 1, 963, 206 868, 686 676, 890 163, 800		
	28 28 28 28 28	2, 256 171 171 29 38	355 202 332 351 111	74 474 74	115 544 1,104 1,104		230 144 374 124		
28, 000 29, 500 37, 000 970, 855 149, 850	128, 750 134, 000 39, 650 304, 500 11, 160	2, 571, 365 154, 250 10, 500 13, 000	96,850 267,400 205,750 259,025 46,575	22,000 14,500 77,000 151,060	3, 914, 250 3, 616, 000 356, 000 2, 065, 550 81, 305	36, 798 384, 783 268, 875 192, 375 10, 000	48, 600 1, 851, 100 189, 655 273, 250 175, 500	14, 500 153, 300 71, 800 1, 224, 105 207, 084	
19888	1382	057 45 88	22222	4042	146 34 34 34	14 57 51 10 11	¥254 286 486 486 486 486 486 486 486 486 486 4	148	
32, 500 23, 500 82, 000 1, 863, 035 278, 205	343,860 107,300 22,650 769,800 151,628	344, 450 5, 425, 427 660, 925 7, 500 16, 000	71, 250 1, 114, 720 766, 525 754, 960 153, 383	141, 700 66, 450 184, 670	5, 687, 350 9, 984, 350 4, 643, 000 7, 013, 300 212, 725	170, 265 861, 156 523, 265 231, 440 75, 400	1, 580, 300 467, 378 387, 000 220, 300	13, 300 239, 100 87, 950 1, 660, 300 593, 791	
2 0 E E G	154 114 210 612	1,330	325 122 195 86	10000	1, 462 62 62	155 193 11	388438	396 396 85	
Gary, Ind Grand Rapids, Mich. Hartford, Conn. Houston, Tex. Indianapolis, Ind.	Jacksonville, Fla. Jersey City, N. J. Kansas City, Kans. Kansas City, Mo. Knoxville, Tenn.	Long Beach, Calif. Los Angeles, Calif. Louisville, Ky. Lowell, Mass. Lynn, Mass.	Memphis, Tenn. Miami, Fia. Milwaukee, Wis. Minneapolis, Minn.	New Bedford, Mass New Bedford, Mass New Haven, Conn New Orleans, La	The Bronx 1. Brooklyn 1. Manhattan 1. Queens 1. Richmond 1.	Norfolk, Va. Oakland, Calif. Oklahoma City, Okla. Omaha, Nebr.	Peoria, III. Philadelphia, Pa Pittsburgh, Pa Portland, Oreg. Providence, R. I.	Reading, Pa. Richmond, Va. Rochester, N. Y. Rochester, Mo. St. Paul, Minn.	

1 Applications filed.

Table 19.-Number and Estimated Cost of Building Construction in 94 Identical Cities, First 6 Months of 1934 and of 1935-Continued

	Z	New residential buildings	ial builo	lings	New	New nonresidential buildings	ential bu	ildings	Addit	Additions, alterations. and repairs	tions. an	nd repairs		Total co	Total construction	пс
City and State	Firs	First half of 1935	First half	half of	First	First half of 1935	First	First half of 1934	Firs	First half of 1935	Firs	First half of 1934	Fir	First half of 1935	E	First half of 1934
	Num-	Cost	Num- ber	Cost	Num- ber	Cost	Num- ber	Cost	Num- ber	Cost	Num- ber	Cost	Num- ber	Cost	Num-	Cost
Salt Lake City, Utah San Antonio, Tex San Diego, Calif San Francisco, Calif Seranton. Pa	294 294	\$218, 530 301, 640 1, 018, 677 1, 249, 676	8555 x	\$36, 025 76, 648 246, 910 491, 325 50, 100	210 210 319 130 48	\$204, 666 2, 067, 817 1, 359, 484 3, 462, 753 35, 070	183 183 89 80	\$566, 667 692, 729 530, 816 1, 195, 236	4, 229 905 1, 497	\$300, 429 675, 729 392, 912 1, 298, 567	306 589 552 1, 238	\$227, 226 161, 081 262, 583 1, 540, 258	4, 584 1, 536 1, 921	\$723, 625 3, 045, 186 2, 771, 073 6, 010, 996	1,402	\$829, 918 930, 458 1, 040, 309 3, 226, 819
Seattle, Wash. Somerville, Mass South Bend, Ind Spokane, Wash. Springfield, Mass.	101 2 113 113		1008r		381 231 231 331	506, 300 11, 705 87, 975 251, 115 52, 504		430, 576 37, 105 47, 165 161, 446 77, 700	1,188 135 328 574 156	483, 700 151, 918 130, 275 225, 029 149, 910	-i		m	1, 329, 175, 242, 758, 252,	ή,	
Syracuse, N. Y. Tacoma, Wash. Tampa, Fla. Toledo, Ohio. Trenton, N. J.	82872	116, 300 33, 150 30, 600 63, 950 11, 500	E 2 2 4 8		25832		77 93 166 33	429, 211 102, 946 60, 045 702, 945 298, 244	245 792 249 114	316, 315 147, 235 231, 476 136, 877 108, 782	201 195 932 302 185			1, 222, 308, 333, 939, 165,	1,	
Tulsa, Okla. Utica, N. Y. Watshington, D. C. Waterbury, Conn. Wichita, Kans.	929 112 512	270, 400 12, 000 6, 631, 090 42, 300 181, 350	3455	142, 655 74, 100 2, 354, 330 58, 700 11, 000	123 524 53 119	129, 474 18, 865 8, 614, 299 34, 675 116, 790	294 314 314 314 314 314 314 314 314 314 31	402, 736 975, 340 6, 653, 951 129, 300 229, 195	292 58 1, 437 767		1,		લ		1,	
Wilmington, Del Worcester, Mass Yonkers, N. Y Youngstown, Ohio	8682	168, 850 154, 740 548, 100 46, 800	68 64	255, 800 232, 620 292, 850 14, 950	22 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	82, 518 753, 362 66, 010 95, 300	2888		354 381 149 368		346 346 117 227		- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10			
Total Percentage change	11,887	78, 580, 933	5, 184 30, 785,	0, 785, 288	19, 236 9,	92, 016, 870 +34.3	15, 328	68, 521, 896	88, 105 6	68, 574, 515 +30. 6	70, 905	52, 514, 337	119, 228 +30.4	239, 172, 318 +57. 5	91, 417	151, 821, 521
Honolulu.	313	\$488, 283	228	\$436, 279	199	\$870,958	211	\$273, 511	674	\$287, 121	620	\$160, 520	1, 186	\$1, 646, 362	1,059	\$870,310

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To to A:

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id of Increases in the value of building construction were registered by 70 of the 94 cities included in the foregoing table.

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1, 186 \$1, 646, 362 +12.0 +89.2

\$160,520

620

\$287, 121 +78.9

\$273, 511

211

\$870,958 +218.5

\$436, 279

228

\$488, 283

313

Honolulu....

Permits were issued during the first 6 months of 1935 for the following important building projects: For a parcel-post building in Boston, Mass., to cost \$2,500,000, for a public building to cost \$840,000, and for a school building to cost \$685,000; for a hospital building in Worcester, Mass., to cost over \$600,000; for a school building in Bayonne, N. J., to cost nearly \$1,300,000; for factory buildings in Camden, N. J., to cost nearly \$800,000; for apartment houses in the Borough of Brooklyn, N. Y., to cost nearly \$8,600,000; for school buildings in the Borough of Manhattan, New York City, to cost over \$2,000,000; for police headquarters in Buffalo, to cost nearly \$500,000; for a school building in Olean, N. Y. to cost \$750,000; for an amusement building in Pittsburgh, Pa., to cost \$450,000; for a meat-packing plant in Chicago, Ill., to cost \$800,000; for an institutional building in Toledo, Ohio, to cost \$625,000; for a public utility building in Milwaukee, Wis., to cost over \$700,000; for a school building in Kansas City, Mo., to cost nearly \$600,000; for a department store in Birmingham, Ala., to cost \$545,000; for a hospital in Memphis, Tenn., to cost over \$500,000; for a pier and warehouse in Gulfport, Miss., to cost over \$970,000; for a State university building in Austin, Tex., to cost over \$1,500,000; for a courthouse in El Paso, Tex., to cost nearly \$600,000; for a courthouse and hall of records in Oakland, Calif., to cost over \$1,500,000, and for public buildings to cost nearly \$2,400,000; for public buildings in Los Angeles, Calif., to cost over \$2,000,000; and for a junior high school in San Francisco, Calif., to cost nearly \$600,000.

Contracts were awarded by the Procurement Division of the Treasury Department for a parcel-post building in Detroit, Mich., to cost \$845,000; for a post office and Federal courthouse in San Antonio, Tex., to cost over \$1,800,000; and for an annex to the Library of Congress in Washington, D. C., to cost over \$6,000,000.

A contract was awarded by the Bureau of Yards and Docks of the Navy Department for an aircraft factory building in Philadelphia, Pa., to cost \$893,000.

The Public Works Administration awarded a contract for a low-cost housing project in Cleveland, Ohio, to cost nearly \$2,500,000.

The number of family-dwelling units provided in each of the 94 identical cities having a population of 100,000 or over for the first half of 1934 and 1935 is shown in table 20.

Tab

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Table 20.—Number of Family-Dwelling Units Provided in 94 Identical Cities, First 6 Months of 1934 and of 1935

and in the following		N	Tumber o	f familie	s provide	d for in-	-	
City and State	1-fan dwell		2-fan dwelli		Multif dwell		All cla	
d guilde i fail	First h	alf of—	First h	alf of—	First h	alf of—	First h	alf of-
a method gyordenii	1935	1934	1935	1934	1935	1934	1935	1934
Akron, Ohio	32 23 128 153 19	16 16 45 50 4	2 0 39 0	0 4 6 0 0	0 12 1, 280 0 0	0 20. 0 0	34 35 1,447 153 19	16 40 51 50 4
Boston, Mass.3 Bridgeport, Conn Buffalo, N. Y Cambridge, Mass Camden, N. J	45 26 21 4 0	72 10 15 0 1	14 6 10 0 0	10 4 5 0	0 6 0 0	0 0 0 0	59 38 31 4 0	82 14 20 0
Canton, Ohio	11 23 125 223 51	3 12 67 119 25	0 0 11 6 1	0 0 4 10 6	0 0 40 36 676	0 0 0 8 0	11 23 176 265 728	3 12 71 137 31
Columbus, Ohio	30 284 11 199 62	8 113 3 54 72	4 74 2 0 0	1 22 0 2 1	0 54 0 30 0	0 0 0 0	34 412 13 229 62	13: 5: 7:
Detroit, Mich	626 7 21 12 9	180 10 6 7 7	27 0 2 4 0	6 0 1 1 0	0 0 0 0	0 0 0 0	653 7 23 16 9	18
Evansville, Ind	16 2 25 24 113	11 5 8 6 33	0 2 0 0 0 28	0 0 0 0	0 0 0 0	0 0 0 0	16 4 25 24 141	3
Gary, IndGrand Rapids, MichHartford, ConnHouston, TexIndianapolis, Ind	12 6 13 427 49	10 6 6 141 28	1 0 0 80 0	0 0 0 106 2	0 0 0 26 0	0 0 0 6 0	13 6 13 533 49	25
Jacksonville, Fla	153 11 13 209 61	60 3 17 78 12	2 2 0 2 0	1 2 0 0 0	0 29 0 0 0	0 48 3 0 0	155 42 13 211 61	2
Long Beach, CalifLos Angeles, CalifLouisville, KyLowell, MassLynn, Mass	1, 197 128 4 3	52 649 33 3	10 202 2 0 0	15 126 2 0 0	.0 176 4 0	0 51 0 0	104 1,575 134 4 5	85
Memphis, Tenn	25 306 114 187 85	25 95 31 66 33	2 34 16 16 2	0 4 6 6	0 10 0 0	0 0 0 0 4	27 350 130 203 87	
Newark, N. J New Bedford, Mass New Haven, Conn New Orleans, La	13 0 10	4 3 4 41	2 0 0 0	0 0 0	28 0 0 0	0 0 0	43 0 10 56	

Footnotes at end of table.

Table 20.—Number of Family-Dwelling Units Provided in 94 Identical Cities, First 6 Months of 1934 and of 1935—Continued

		N	umber o	f families	provide	d for in-	-	
City and State	1-fan dwell		2-fan dwelli		Multif dwelli		All clas	
an amazana ara	First h	alf of—	First h	alf of—	First h	alf of—	First he	alf of—
at 1,0001 to the door	1935	1934	1935	1934	1935	1934	1935	1934
New York City: The Bronx 3 Brooklyn 3 Manhattan 3 Queens 3 Richmond 3	86 193 2 1, 373 58	61 67 2 535 32	57 92 0 133 6	37 110 0 68 3	1, 531 2, 737 1, 135 855 0	1, 703 812 72 82 0	1, 674 3, 022 1, 137 2, 361 64	1, 801 989 74 685 35
Norfolk, Va Oakland, Calif Oklahoma City, Okla Omaha, Nebr Paterson, N. J	53 150 175 60 9	14 73 56 49 1	0 3 23 0 4	0 6 0 4 0	0 9 16 0 0	0 0 0 0	53 162 214 60 13	14 79 56 53 1
Peoria, Ill	28 336 78 89 23	12 187 43 60 25	0 4 12 0 14	4 2 2 0 6	0 0 15 4 0	0 176 12 23 0	28 340 105 93 37	16 365 57 83 31
Reading, PaRichmond, VaRochester, N. Y	3 54 17 374 83	1 33 12 142 42	0 0 0 31 0	. 0 0 0 10 0	0 0 0 12 3	3 0 0 252 0	3 54 17 417 86	4 33 12 404 42
Salt Lake City, Utah San Antonio, Tex San Diego, Calif. San Francisco, Calif. Scranton, Pa.	47 137 286 258 4	18 55 72 53 5	8 10 16 70 0	0 8 11 37 2	0 24 85 3 0	0 0 0 35 8	55 171 387 331 4	18 63 83 125 15
Seattle, Wash	100 2 6 111 10	73 0 0 46 7	0 0 0 0 3	0 0 0 2 0	4 0 0 6 0	0 0 0 0	104 2 6 117 13	73 0 0 48 7
Syracuse, N. Y	19 19 24 14 2	12 19 12 3 3	1 0 1 0 0	2 0 0 1	0 0 0 0	0 0 0 0	20 19 25 14 2	14 19 12 4 3
Tulsa, Okla Utica, N. Y. Washington, D. C. Waterbury, Conn Wichita, Kans	47 3 747 12 49	21 17 324 12 6	0 0 0 0 1	0 0 2 0 0	0 0 181 0 1	0 0 96 0	47 3 928 12 51	21 17 422 12
Wilmington, Del Worcester, Mass Yonkers, N. Y Youngstown, Ohio	35 40 77 12	42 47 43 4	0 0 2 0	2 2 1 0	0 0 0	0 10 0	35 40 79 12	48 49 54
Total	10, 806	4, 722	1,098	675	9, 028	3, 428	20, 932	8, 825
		Haw	aii					
Honolulu	308	225	2	4	8	0	318	229

Includes 1- and 2-family dwellings with stores.
 Includes multifamily dwellings with stores.
 Applications filed.

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Construction From Public Funds, First Half of 1935

IT IS significant that the increased building construction activity during the first half of the current year has been due in large measure to the accelerated pace of private industry. During the first 6 months of 1935, contracts for construction projects valued at approximately \$455,000,000 were financed from the public-works fund. This compares with \$683,000,000 during the corresponding period of 1934. Of the contract valuation during the first half of 1935, \$276, 300,000 was allotted for Federal projects and \$178,600,000 for non-Federal projects.

Federal construction projects are financed entirely by allotments made by the Public Works Administration to various departments and agencies of the Federal Government.

Non-Federal construction projects are financed from allotments made by the Public Works Administration to a State or political subdivision thereof, or to a commercial firm. In the case of allotments to States and their political subdivisions, the Public Works Administration makes a direct grant of not more than 30 percent of the total construction cost. No grants are made to commercial firms, however. On all loans made by the Public Works Administration, interest is charged and the date of maturity specified.

The value of contracts awarded for Federal construction projects financed from Public Works Administration funds classified by geographic divisions is shown in table 21.

Table 21.—Value of Contracts Awarded for Federal Construction Projects Financed from Public Works Administration Funds, First 6 Months of 1934 and of 1935

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Geographic division	Buildi	Building construction	a	Public	Public roads	Rive	r, harbor, and f projects	River, harbor, and flood-control projects
	First half of 1935		First half of 1934	First half of 1935	First half of 1934		First half of 1935	First half of 1934
All divisions.	\$28, 241, 473		841, 411, 282	\$99, 108, 417	\$161, 735, 193		889, 858, 411	\$56, 576, 435
New Encland Middle Atlantic East North Central West North Central South Atlantic East South Central Worst South Central Pacific Pacific Outside continental United States	4, 913, 941 2, 961, 180 3, 979, 598 553, 458 8, 922, 097 608, 697 1, 008, 845 1, 119, 084 934, 584		2, 970, 452 8, 667, 762 2, 595, 569 1, 048, 163 12, 284, 163 2, 755, 073 3, 966, 672 2, 806, 834	2, 940, 004 7, 920, 564 19, 056, 184 13, 411, 148 13, 821, 497 8, 747, 999 15, 598, 896 8, 231, 553 9, 380, 482	6, 551, 12, 755, 28, 236, 29, 189, 22, 122, 16, 239, 19, 268, 13, 268,	526 874 874 731 731 558 896 896	338, 524 369, 854 115, 726, 248 60, 673, 225 3, 567, 803 603, 823 4, 508, 903 3, 627, 031 443, 000	3, 385, 384 2, 847, 607 2, 847, 607 4, 698, 077 5, 648, 181 5, 666, 184 13, 159, 187 12, 125, 070
	Streets and roads	d roads i	Na	Naval vessels	Reclamatic	Reclamation projects		Forestry
Geographic division	First half of 1935	First half of 1934	First half of 1935	of First half of	First half of 1935	First half of 1934	First half of 1935	of First half of
All divisions.	\$1, 625, 502	\$9, 921, 884	1 \$12. 684. 682	\$35, 544, 179	\$37, 814, 638	\$ \$40, 072, 520	\$1, 148, 627	\$3, 450, 760
New England. Middle Atlantic. Middle Atlantic. East North Central. South Atlantic. East South Certral. West South Certral. Wountain. Pacific.	38, 984 20, 839 46, 982 10, 067 12, 179 197, 059 460, 823 164, 623 282, 744	43, 149 285, 953 130, 719 863, 870 2, 765, 262 271, 676 492, 837 3, 003, 492 1, 503, 121 471, 805	40,286 219,734 0 0 12,409,388 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	701, 289 14, 377, 880 0 74, 909 0 15, 685, 960 0 11, 281 0 600, 522 0 92, 338	152, 500 3, 150, 000 22, 065, 000 147, 400 9, 930, 172 2, 369, 566	10,000 1,040,900 1,248,820 2,138,176 2,138,176 1,626,500 1,853,274 2,019,486 2,019,486 2,019,486	25.8 5.7 25.9 2.9 2.8 5.3 3.3 2.9 2.9 5.0	50C 95,705 3889 981 981 981 981 981 981 981

1 Other than those reported by the Bureau of Public Roads. 2 Includes \$9,574 not allocated by geographic divisions. 3 Includes \$10,000 not allocated by geographic divisions.

Table 21.—Value of Contracts Awarded for Federal Construction Projects Financed from Public Works Administration Funds, First 6 Months of 1934 and of 1935—Continued

	Water and sev	Water and sewerage systems	Miscel	Miscellaneous	T	Total
reographic division	First half of 1935	First half of 1934	First half of 1935	First half of 1934	First half of 1935	First half of 1934
All divisions.	\$214, 648	\$2, 476, 706	\$5, 696, 528	4 \$20, 549, 766	1 \$276, 392 926	• \$371, 738, 725
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific.	1, 477 1, 700 6, 581 105, 999 3, 909 75, 813 9, 000 8, 408	47, 555 217, 319 108, 203 04, 806 1, 366, 779 133, 466 222, 925 254, 013 00, 640 1, 000	1, 345, 258 699, 249 991, 270 315, 742 1, 342, 911 70, 820 92, 623 370, 012 225, 798 232, 845	1, 547, 490 5, 499, 916 6, 876, 520 693, 314 280, 893 824, 542 475, 507 1, 842, 240 810, 481	9. 619, 064 12, 193, 120 39, 864, 252 75, 154, 991 43, 911, 496 31, 529, 766 19, 905, 434 25, 058, 326 17, 245, 052 1, 901, 851	12, 386, 828 48, 776, 179 44, 483, 601 28, 897, 933 64, 914, 086 22, 394, 087 34, 317, 614 71, 106, 112 36, 906, 100 7, 494, 162

Pincludes \$9.574 not allocated by geographic divisions. Includes \$51,283 not allocated by geographic divisions. Includes \$61,283 not allocated by geographic divisions.

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Comparing the first half of 1935 with the same period in 1934, there were decreases in the value of awards for all types of construction with the exception of river, harbor, and flood-control work. The increase in this type of work amounted to more than \$33,000,000. The decreases were spread over 7 of the 9 geographic divisions. Marked increases, however, occurred in the West North Central and the East South Central States. Awards for river, harbor, and flood-control work accounted for the increase in the West North Central area and reclamation projects in the East South Central.

The value of contracts awarded for non-Federal construction projects financed from the Public Works Administration fund for the first half of 1934 and 1935 is given in table 22.

Table 22.—Value of Contracts Awarded for Non-Federal Construction Projects
Financed From Public Works Administration Funds, First 6 Months of 1934
and of 1935

	Building co	onstruction	Streets and	d roads 1		d sewerage tems
Geographic division	First half of 1935	First half of 1934	First half of 1935	First half of 1934	First half of 1935	First half of 1934
All divisions	\$87, 296, 727	\$77, 838, 038	\$19, 817, 687	\$26, 944, 723	\$51, 864, 347	\$39, 215, 757
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Ountain Pacific Outside continental United States	41, 999, 051 5, 279, 987 7, 903, 686	9, 409, 170 27, 327, 230 5, 536, 276 12, 461, 186 12, 492, 987 1, 908, 925 3, 488, 436 1, 815, 003 3, 382, 331	2, 999, 795 2, 518, 519 3, 352, 751 3, 391, 468 781, 065 379, 326 1, 674, 861 154, 484 4, 484, 250 81, 168	5, 944, 297 6, 880, 668 1, 212, 076 1, 787, 635 3, 217, 205 192, 042 438, 072 1, 629, 418 5, 643, 310	954, 131 6, 449, 325 19, 609, 244 3, 308, 090 3, 434, 964 1, 637, 029 6, 247, 065 3, 168, 701 6, 869, 523	3, 382, 548 4, 418, 752 13, 732, 266 5, 775, 029 5, 740, 581 2, 518, 881 860, 215 1, 616, 779 463, 241 707, 465
Geographic division		onstruction epair	Miscell	aneous	Total	
Soograpaio di Vision	First half of 1935	First half of 1934	First half of 1935	First half of 1934	First half of 1935	First half of 1934
All divisions	\$10, 057, 125	\$166, 071, 957	\$9, 611, 726	\$1, 669, 530	\$178, 647, 612	\$311, 740, 008
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific Outside continental United States	2, 093 5, 895, 994 1, 857, 591 1, 711, 583 58, 048 522, 535 9, 281	77, 520, 621 30, 920, 867 3, 577, 735 26, 649, 156 7, 580, 610 3, 542, 760 3, 212, 784 6, 427, 639	1, 869, 940 567, 884 4, 433, 270 45, 985 490, 935 1, 187, 410 698, 678 125, 107	118, 279 143, 268 43, 880 6, 500 70, 647 42, 196 488, 199	20, 748, 097 9, 477, 045 4, 402, 706 15, 157, 762 6, 622, 444 22, 610, 941	116, 265, 550 51, 544, 753 23, 645, 464 48, 099, 925 12, 206, 958 8, 400, 130 8, 316, 180 16, 404, 720

Other than those reported by the Bureau of Public Roads.

The total value of construction awards for non-Federal projects for the first half of 1935 decreased approximately \$133,000,000 below the level for the corresponding period of last year. The decrease was caused by the falling off in awards for railroad construction. There were marked increases in the value of awards for building construction.

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tion, water and sewerage construction, and miscellaneous projects. The West South Central and the Pacific States were the only geographic divisions showing increases over a year ago in all types of projects

Among the large projects for which contracts were awarded during the first half of 1935 were: For additional work on the subway system in New York City to cost over \$3,000,000; for steel work, suspension spans, and approach viaducts on the Tri-Borough Bridge to cost over \$3,000,000; for contracts for the New York subway sys. tem to cost over \$4,000,000; for a grade-crossing elimination at Port Richmond, Staten Island, N. Y., to cost nearly \$1,000,000; for Allegheny County Home at Woodville, Pa., to cost over \$2,200,000: for sewerage contracts in the Chicago Sanitary District to cost over \$4,000,000; for sewage-treatment works, in Chicago, Ill., to cost over \$3,500,000; for a city community-center building in St. Louis. Mo., to cost \$1,200,000; for a sewage-treatment plant in the District of Columbia, to cost over \$1,000,000; for a courthouse at Oakland Calif., to cost over \$1,300,000; and for enlargement of the O'Shaugh. nessy Dam for the city and county of San Francisco, to cost \$3,200,000.

Table 23 gives the value of contracts awarded for construction projects financed from regular governmental appropriations during the first half of 1935.

Table 23.-Value of Contracts for Federal Construction Projects Financed from Regular Governmental Appropriations, First 6 Months of 1935

	Fir	est 6 months of 19	935
Geographic division	Building con- struction	Public roads	River, harbor, and flood-con- trol projects
All divisions	\$19, 525, 804	\$3, 308, 098	\$24, 351, 790
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central West South Central Mountain Pacific Outside continental United States	490, 010 2, 478, 686 2, 291, 700 1, 020, 294 9, 021, 099 855, 056 1, 660, 036 778, 183 753, 707 177, 033	0 0 290, 386 426, 302 0 72, 770 34, 197 1, 482, 705 1, 001, 738 0	427, 512 1, 003, 167 510, 957 984, 221 5, 339, 582 2, 967, 549 10, 797, 475 13, 354 2, 284, 973 23, 000
Geographic division	Streets and roads 1	Naval vessels	Reclamation projects
All divisions	\$511, 382	\$28, 157, 994	2 \$1, 647, 454
New England Middle Atlantic East North Central West North Central	6, 900 139, 740 6, 254 0	28, 000 22, 703, 150 0	148, 568 694, 166

338, 256

1, 890 3, 775

5, 667 8, 900

746, 550

South Atlantic

Mountain.

Pacific

East South Central

West South Central

Outside continental United States...

Other than those reported by the Bureau of Public Roads. Includes \$29,200 not allocated by geographic divisions.

Table 23.—Value of Contracts for Federal Construction Projects Financed from Regular Governmental Appropriations, First 6 Months of 1935—Contd.

Geographic division	Water and sew- erage systems	Miscellaneous	Total
All divisions	\$69, 518	3 \$2,363, 170	• \$79, 935, 210
New England	2, 000 5, 135	46, 870 511, 802	1, 001, 292 26, 841, 680
West North Central	11, 158 36, 225	91, 234 215, 925 872, 765	3, 339, 099 3, 352, 066 16, 400, 677
East South Central	0	38, 662 24, 722 9, 716	3, 934, 037 12, 577, 820 2, 740, 853
Pacific	15, 000	342, 846 205, 012	8, 473, 225 1, 241, 645

¹ Includes \$3.616 not allocated by geographic divisions.
1 Includes \$32,816 not allocated by geographic divisions.

During the 6 months ending June 30, 1935, contracts valued at nearly \$80,000,000 were awarded for construction projects to be financed from regular departmental appropriations. More than 90 percent of this money was to be spent for river, harbor, and flood-control work, naval vessels, and building construction.

The value of buildings and road work for which contracts were awarded to be financed by State governments during the first 6 months of 1934 and 1935, by geographic divisions is shown in table 24.

Table 24.—Value of Public-Building and Highway-Construction Awards as Reported by State Governments, First 6 Months of 1934 and of 1935

Geographic division	Value of awar buildings, fir		Value of award construction, i	
acographic arrains	1935	1934	1935	1934
All divisions	\$7, 145, 844	\$27, 544, 104	\$19, 888, 321	\$27, 178, 837
New England	290, 747 1, 817, 417	1, 503, 641 8, 207, 048	167, 570 1, 898, 326	822, 960 4, 000, 866
East North Central West North Central South Atlantic	2, 706, 723 296, 882 473, 749	3, 717, 898 1, 014, 282 3, 123, 881	1, 036, 712	5, 445, 901 1, 734, 226 3, 529, 313
East South Central	6, 444 1, 028, 058 37, 547	450, 000 3, 954, 577 553, 565	596, 011 4, 862, 245 325, 383	1, 233, 512 3, 249, 747 688, 814
Pacific	488, 277	5, 019, 212	4, 405, 712	6, 473, 498

Road and building construction, as indicated in the preceding table, is financed wholly from State funds, and does not include projects financed through P. W. A. loans or grants.

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216, 700

In table 25 the value of contracts awarded and force-account work started on street-paving projects financed wholly by municipal funds, is shown for 51 cities of the United States having a population of 150,000 or over

Table 25.—Value of Contracts Awarded and Force-Account Work Started for Street Paving in 51 Cities, First 6 Months of 1935

Month	Cost	Month	Cost
Total	\$6, 471, 331	March	\$737,2
January February	787, 719 214, 780	April. May	2, 226, 1 1, 171, 8 1, 333, 6

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Food Prices in August 1935

DURING August, retail prices of food advanced, reversing the downward movement which had continued from April through July. The index of retail prices of 48 foods combined (1913=100) was 123.0 on August 27, an increase of 1.4 percent compared with July 30, when the index stood at 121.3.

The advance was due primarily to an increase of 4.2 percent in meat prices. Every meat item included in the index registered a price increase. Beef prices were up by 2.1 percent. Pork prices rose 7.7 percent. Increases of 2.5 percent and 5.6 percent were reported for poultry and salmon, respectively. Lamb prices increased 3.0 percent during the month. Meat prices are now higher than at any time since November 1930 and are 26.5 percent above the level for a year ago. They are, however, 16.6 percent lower than on August 15, 1929.

An advance of 5.1 percent in the fats and oils group, due to rising prices of lard and lard compound, accompanied this increase in meat prices. Lard prices were 11.2 percent higher than on July 30 of this year and 122.4 percent above those of August 29, 1933. Prices of lard compound advanced 3.1 percent between July 30 and August 27. A decrease of 1.0 percent during the month was shown for oleomargarine. The group as a whole is 6.3 percent below the level of August 15, 1929.

Dairy products registered an average gain of six-tenths of 1 percent during August. Increases of 2.0 percent for butter and 1.2 percent for cheese were recorded. There were no changes in prices of fresh milk, delivered, nor in evaporated milk.

Egg prices advanced 8.1 percent. Although this is a seasonal increase, egg prices are higher than on any corresponding date since 1930.

The most conspicuous price decline was 6.1 percent for the fruit and vegetable group. Prices for potatoes, the most important item in the group, fell 10.5 percent. Onions decreased 13.3 percent. The only price increases registered in this group were 3.8 percent for cabbage and nine-tenths of 1 percent for oranges. Prices of other fresh fruits, dried fruits, and canned vegetables either remained unchanged or showed relatively small decreases.

¹ At the time of going to press, it had been impossible to make calculations allowing for an increase from 2 to 3 percent in the Illinois sales tax, effective July 1, 1935. These calculations, now complete, give rise to no significant changes in the figures here published. Revised figures for July and August will appear in the next report.

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Cereals and bakery products receded three-tenths of 1 percent during the month, due to a decrease of 1.2 percent in bread prices. This decline in bread prices was not general throughout the United States. In 34 cities, the prices of bread remained unchanged and advances were reported in 8 cities. The 9 cities in which bread prices fell were of enough importance to account for the average decrease for the country as a whole. This drop in bread prices was not offset by gains of 2.0 percent for wheat flour, and 1.2 percent for rice.

Prices of coffee and tea decreased resulting in an average decline of three-tenths of 1 percent for the beverage group.

In the sugar and sweets group, a small decrease for strawberry preserves was balanced by a small increase for molasses. No changes were recorded for sugar and corn sirup.

Table 1.—Indexes of Average Retail Cost of 48 Foods in 51 Large Cities Combined, by Commodity Groups

August	and	July	1935	and	August	1934
--------	-----	------	------	-----	--------	------

wee than or August	1 193	111	Inde	ex (1913=	100)	20 77	neT		ntege (;. 27, 193 ed with-	
Article		DEN .	1935	HE ILL	disno	19	34	19	035	1934
son July 30 of the	Aug.27	Aug. 13	July 30	July 16	July 2	Aug. 28	Aug.14	Aug. 13	July 30	Aug.28
All foods- Cereals and bakery products- Meats-	163. 5	122.3 150.6 161.3	121. 3 150. 6 156. 9	121. 7 150. 6 156. 8	121. 8 150. 7 156. 0	115. 3 150. 8 129. 2	111. 8 149. 6 121. 1	+0.6 3 +1.4	+1.4 3 +4.2	+6.7 5 +26.5
Dairy products	105. 2 108. 1 103. 4 95. 6	104. 6 104. 3 106. 2 95. 6	104. 6 100. 0 110. 1 25. 9	104.3 97.4 117.0 95.9	104. 9 94. 8 119. 8 96. 2	105. 6 95. 3 118. 0 97. 4	103. 4 87. 8 116. 1 96. 9	+.6 +3.6 -2.6	+.6 +8.1 -6.1 3	+13.4 -12.4 -1.8
Fats and oils	124. 4 111. 8	121.3 111.7	118.3 111.8	117. 6 111. 7	117. 2 111. 8	83. 9 109. 5	78. 2 109. 7	+2.5 +.1	+5.1	+48.

The important changes in retail food prices in July and August 1935 are indicated in table 1. This table gives the index numbers for the 8 major groups of food purchased by wage earners in the 51 cities covered by the surveys of the Bureau of Labor Statistics. The table also compares current prices with the level prevailing on corresponding dates of August 1934.

There are now 48 foods included in the retail-food-price index. Six commodities were added on May 21. They are cocoa, lard compound, salad oil, corn sirup, molasses, and strawberry preserves. At that time three new commodity groups were introduced. These are fats and oils, beverages, and sugar and sweets. These groups replaced the "miscellaneous" group. The commodities indicated by an asterisk in table 2 are those included in the index. Prices are being col-

lected on 39 additional foods, 36 of which are to be included in a new general index.

Table 2 shows average prices of these 87 commodities for 51 large cities combined. This table compares average prices in August with those for the previous month, and for August 1934.

Table 2.—Average Retail Prices of 87 Foods in 51 Large Cities Combined

August and July 1935 and August 1934

i* Indicates commodities included in index number]

			1935			193	34
Article	Aug.	Aug.	July 30	July 16	July 2	Aug.	Aug.
Cereal foods:	Cents	Cents	Cents	Cents	Cents	Cents	Cents
*Flour, white, wheatpound	5, 0	4. 9	4.9	4.9	4.9	5.0	5.0
*Corn mealdo	5. 2	5. 2	5. 2	5. 2	5. 2	4.5	4.5
*Rolled oatsdodo	7.7	7. 7	7.7	7. 7	7. 7	6. 9	6, 9
*Corn flakes8-oz. package	8. 4	8. 4	8.4	8. 4	8.4	8.3	8.3
*Wheat cereal28-oz. package	24.7	24. 5	24. 7	24. 7	24. 7	24. 3	24. 3
*Ricepound-	8. 4	8.3	8.3	8.3	8.3	8.3	8. 2
*Macaronido	15.6	15.6	15. 7	15. 6	15. 7	15. 8	15. 7
Hominy grits24-oz. package	10.3	10.3	10.3	10. 5	10.3		
Bakery products:	0.0	0.9	0 2	0.0	0.0	0.4	0.0
*Bread, white, wheatpound	8. 2	8.3	8.3	8.3	8.3	8.4	8.3
Bread, ryedo Bread, whole wheatdo	9.0	9.0	9.0	8. 9 9. 0	8.9	8.9	8.8
Cake, pounddo		24.6	24. 4	24. 2	24. 2	22.9	22. 7
Soda crackersdo	17. 5	17.5	17. 5	17. 2	16.9	22. 9	44. 1
Reaf:		11.0	1.0	****	100.0	******	
*Sirloin steakdo	40. 8	40.6	39.7	40.3	40.6	33. 8	32, 9
*Round steakdo	37.0	36. 8	36.1	36. 7	36. 8	29. 8	29.0
*Rib roastdodo		30.0	29. 6	30. 2	30. 4	23. 2	22, 6
*Chuck roastdodo	23. 3	23. 1	23. 1	23. 6	23. 9	17. 2	16. 5
*Platedo	16.0	15. 7	15. 8	16. 2	16.5	10. 9	10. 4
Liverdo	23. 4	23. 2	23. 2	23. 2	23, 2		
Lamb:							
*Legdo		26. 5	26. 5	27.3	27.3	25. 1	24. 7
Rib chopsdo	34. 6	34.0	33. 9	34.7	34. 5	33. 8	33. 2
Breast do	13.0	12.7	13.0	13.3	13. 2	10.5	10.3
Pork:	21.3	20. 7	20.7	21. 2	21. 5	18.6	18. 2
*Chopsdodo	39. 5	39.7	38.3	37. 0	35, 2	32.5	25, 8
Loin roastdo		33.7	32.6	31.5	29.8	27. 0	20, 6
*Bacon, sliceddodo		44.3	41.8	40.8	40.5	32. 1	29.8
Bacon, stripdo	40. 1	38. 5	36. 4	35.5	35. 2	04.1	20,0
*Ham, sliceddodo	52.8	50. 6	46.9	45.6	45. 4	41. 2	39, 6
Ham, wholedodo	34.6	33. 1	29. 7	28.7	28, 3	25. 0	23.9
Ham, pieniedo	26. 3	25. 6	24.0	23, 4	23, 1	16.4	15.6
Salt pork dodo	29.8	28.8	27. 4	27. 0	26. 9	19. 5	17. 2
Veal:							
Cutletsdo	38. 0	37.7	36.8	36.9	37. 2	31.6	30. 5
Poultry: *Koasting chickensdo			00.0				
Fish, canned:	28. 9	28, 3	28. 2	28, 2	28. 0	24. 5	24.0
Salmon, pink	10.0	100	13.3	120	100	1	14.1
*Salmon, reddodo	13. 3 22. 7	13.3	21.5	13. 2 21. 3	13. 1 21. 2	14. 0 21. 4	14, 1 21, 4
Dairy products;	22.1	21. 9	21. 0	21.0	21. 2	21. 9	21. 4
*Butterpound	31.3	30.7	30.7	30, 3	30. 2	33, 6	32, 1
*Cheesedo	25, 3	25, 1		24.9	24. 9		23. 6
*Milk, fresh, grade A, delivered quart	11.7	11.7	11.7	11.7	11.8	11.4	11.3
*Milk, evaporated14½-oz. can	7.0	7.0		7.1			6.8
Cream32 pint	14.1	14. 1		14.1			
*Eggs dozen		36, 0					30. 3
Fats and oils:		1	1		1	1	1100
*Lard, purepound	21.8						
Lard, compound dodo	16.7						10. 2
Vegetable lard substitutedo	22.5						18.9
Oleomargarinedo	19, 1						13. 4
*Salad oilpint_	25. 5	25. 5	25. 5	25. 5	25. 5		
Fruits, fresh: Apples pound	1						
*Bananas dozen	4.9				7.6		6. 0 23, 5
Lemons do	21.6						

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Table 2.—Average Retail Prices of 87 Foods in 51 Large Cities Combined—Con, August and July 1935 and August 1934

[* Indicates commodities included in index number]

TOTAL TENENT THE			1935	il int	Parls	19	34
Article							-
Sandard left Large Cities Contract t	Aug. 27	Aug.	July 30	July 16	July 2	Aug. 28	Aug.
Vegetables, fresh:	Cents	Cents	Cents	Cents	Cents	Cents	Centa
Beans, greenpound	8, 3	7.9	7.3	7.5	7.6	8,9	10.0
*Cabbagedo	2.7	2.6	2.6	2.8	3. 2	3.5	3.0
Carrotsbunch	4.4	4.4	4.5	4.9	5. 2	4.9	4.1
Celerystalk.	9. 1	9. 0	9.3	10. 3	11.8	9. 4	9.6
Lettucehead .	8.4	8. 2	9. 1	9.4	7.9	9.1	0.1
Onionspound	3. 9	4.1	4.5	5. 1	5, 9	4.4	4.1
Potatoesdo	1.7	1.8	1.9	2, 1	2. 1	2.1	2.0
Sweetpotatoesdo	4. 3	4.7	5 1	5. 2	5. 1	5. 2	6
Spinachdo	7. 9	8.0	7.0	6. 0	5. 4	8.9	8.9
Peachesno. 2½ can	19.8	19. 6	19. 7	19. 5	19. 6	18.7	18 1
Pearsdo	22. 9	22.9	23. 0	23. 0	23. 0	21.6	21,4
Pineappledo	22. 7	22.7	22.7	22.6	22.6	22. 5	22,
Asparagusno. 2 can	25. 9	25. 8	25. 7	25.7	25. 5	24.2	-
Beans, greendodo	11.7	11.7	11.8	11.8	11.9	11.7	23.
*Beans with pork16-oz. can	7.0	7.0	7.0	7.0	6.9	6.7	11,
*Corn	12.8	12.9	13.0	13. 0	13. 0		6,
Peas	17.0	17. 0	17.4	17.6	17. 8	11.4	11,
*Toma'oesdo	10.0	10.1	10.3	10.4	10. 4	10.4	16,
Fruits, dried:	10.0	10. 1	10. 0	10. 1	10. 4	10. 4	10.
Peachespound_	16.3	16. 2	16.4	16.3	16.3	15.5	15
Prunesdo	11.1	11. 2	11.3	11.2	11.3	11.7	111
*Raisinedo	9.8	9.9	9.9	9.8	9.9	9.7	1 8
Vegetables, dried:			1	0.0			1 .
Black-eyed peasdo	8.1	8.2	8.1	8.1	8.0	7.5	7.
Lima beansdodo	9.8	9.9	9.9	9,9	9.8	9.7	9.
*Navy beansdodo	6.1	6.1	6.1	6.1	6.1	5.8	1 &
Sugar and sweets:							1
*Granulated sugardo	5.8	5.8	5. 8	5.8	5.8	5.7	5.
*Corn sirup24-oz. can	13. 7	13. 7	13. 7	13. 7	13.7	12.7	12
*Molasses	14. 1	14.0	14.0	13. 8	14.0	13.9	14
*Strawberry preservespound.	20, 8	20.8	20. 9	21.0	20. 9		
Beverages:							1
*Cueon	10.8	10.8	10, 8	10. 9	10. 9		
*Coffeepound	25. 3	25. 3	25. 4	25. 4	25. 5	27.7	
*Teado	73.6	73.6	73. 7	73.6	73. 9	71.9	71
Miscellaneous foods:	-						
Chocobite, unsweetened8-oz. package	20, 6	21.7	21.7	21.6	21.7		
Mayonnaise	17.0	16. 9	16. 9	16. 9	16. 9		
Peanut butterpound	22. 3	22.3	22.3	22.3	22. 2	16.8	
Salt, tubledo	4.3	4.3	4.3	4.3	4.4	4.3	
Soup. tomato	8.3	8.3	8.3	8.4	8.2	8.0	
Tomato juice13½-cz. can	8.5	8. 5	8.5	8.4	8.4	8.7	1

Details by Regions and Cities

RETAIL prices of food have been collected recently from several cities in addition to the 51 from which reports have been secured regularly by the Bureau for many years. The present report includes data from the following additional cities: Cedar Rapids, Iowa; El Paso, Tex.; Knoxville, Tenn.; Oklahoma City, Okla.; Tucson, Ariz.; Wichita, Kans.; and Winston-Salem, N. C. Prices for these cities are not included in the average for the United States.

The current advance in retail food prices was general throughout the country. Price increases were recorded for 54 of the 58 reporting In 38 cities the increases amounted to 1.0 percent or more. cities.

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The greatest advance, 4.3 percent in St. Louis, was caused by rising prices of meats and eggs and by the imposition of a 1-percent sales tax.

In Rochester, there was no change in the price level. Decreases were recorded in three cities—Denver, two-tenths of 1 percent; Cedar Rapids, five-tenths of 1 percent; and Winston-Salem, 1.2 percent.

Percentages of change in food prices for all of the reporting cities for specified dates in 1935 and 1934 are given in table 3.

Table 3.—Percentages of Change in the Average Retail Cost of 42 Foods, by Cities Aug. 27, 1935, compared with Aug. 13 and July 30, 1935 and Aug. 28, 1934

or sany lighter and the	Au	g. 27, 1	change 1935, with—	(32)	Au	entage of g. 27, 1 apared	935,
Regional area and city	19	35	1934	Regional area and city	19	935	1934
nily appel if a rise	Aug.	July 30	Aug. 28	Manual and Samuel	Aug 13	July 30	Aug.
81 cities combined		+1.4		South Atlantic:			
V Pealand:		_		Atlanta	+2.0	+2.7	+10.1
New England: Boston	1 7	+1.9	+4.8	Baltimore Charleston, S. C. Jacksonville Norfolk Richmond Savannah Washington	+1.0	+1.7	+8.1
Deidgeport	T. 6	+1.2	+6.0	Looksonville	+.0	+1.7	+12.0
Bridgeport	T. 6	+.1	+4.3	Norfolk	1.9	11.0	+9.5
Fail River	T. 0	+.9	+5.8	Richmond	+1.0	12.0	+11.1
New Haven	+1.0	+1.0	+3.5	Savannah	11.0	T2. 2	+9.4
Portland, Maine	1 8	+.3	+5.0	Washington	11.0	T1. 8	+10.2
Portland, Maine Providence	1.8	+1.3	+6.1	Winston-Salem			(1)
Middle Atlantic:	1.0	1 4. 0	10.1	East South Central:	0	-A. &	(.)
Buffalo	+.3	+.6	+5.5	Birmingham	+.8	+28	+7.2
Newark	3	+.6	+6.4	Knovville	- 7	1+14	(1)
New York	1	+1.1	+5.2	Louisville	+.4	+1.3	+7.7
Newark New York Philadelphia	+.1	+1.6	+4.7	Memphis	+1.5	1+18	+7.
Philadelphia Pittsburgh	+.9	+1.7	+5.5	Louisville Memphis Mobile	+1.1	+1.0	+6.
Rochester	1	.0	+5.4	West South Control:			100
Sepanton	0.	+1.0	+4.7	Dallas	4	+.1	+3.
East North Central: Chicago		1	1	El Paso	0.0	+1.7	(1)
Chicago	2	+1.1	+7.8	Houston	+.9	+2.0	+6.
Cincinnati	+.3	+.6	+12.6	Little Rock	1 +.7	+1.6	+5.
Cleveland	+.2	+.8	+8.0	New Orleans	+1.6	1+1.8	+9.1
Columbus	3	+.7	+8.7	OKIMOUIN CILV	+.4	+1.3	(1)
Cincinati	+.1	+.7	+7.9	Mountains			100
Indianapolis	+1.1	+1.8	+10.5	Butte	+.6	+.5	+6.
Milwaukee	+.2	+1.2	+8.9	Denver	+.3	2	+11.0
Milwaukee Peoria	+.5	+.7	+7.2	Salt Lake City	+.6	+.8	+10.
Springfield III	1 1 1	173 0	+11.1	Denver	+1.1	+2.9	(1)
West North Central:				Pacific:			1
Cedar Rapids	5	5	(1)	Los Angeles	+.9	+1.9	+8.
West North Central: Cedar Rapids	+1.2	+2.2	+4.8	Portland, Oreg	+.5	+1.6	+6.
Minneapolis Omaha St. Louis	6	+.1	+5.3	San Francisco	1 +.7	+.5	+5.
Omaha	+.4	+20	+8.0	Seattle	+.6	+1.6	+6.
St. Louis	+2.0	+4.3	+8.8				
St. Paul. Wichita.	+.3	1+.7	+6.9	A 2 1		16 -11	
Wichita	+.2	1+2.5	(1)			1	1

¹ Not available.

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> Cents 10.0 3.6 4.9 9.6 9.5 4.5 2.0 6.1

23.8 11.6 6.6 11.3 16.8 10.4 15.3 11.7 9.7

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16.8 4.3 8.0 8.7

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Retail Food Prices, 1929 to August 1935

Although the index of current food prices is 6.7 percent above that of a year ago, it is still 23.2 percent below the level of August 15, 1929

Compared with August 28, 1934, the current indexes of four commodity groups show an increase and four a decrease. The most striking increases reported for the year are 48.2 percent for the fats and oils group and 26.5 percent for meats. The largest decline is 12.4 percent in prices of fruits and vegetables.

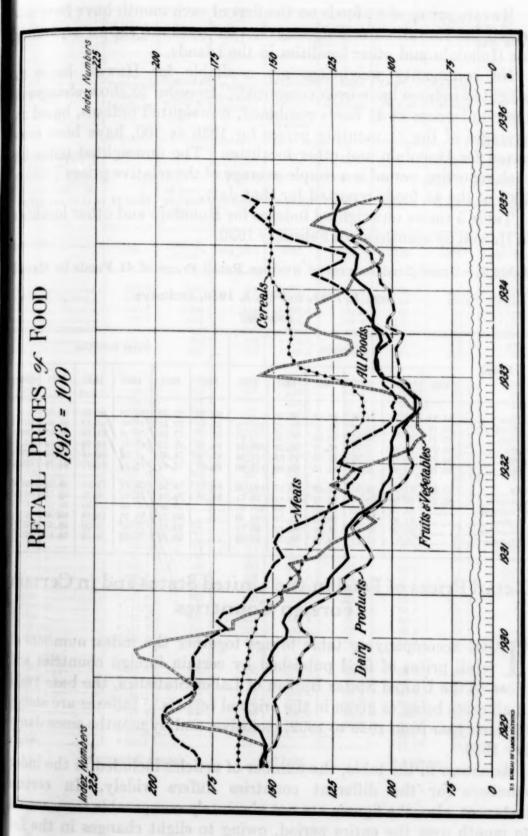
Index numbers of the average retail cost of food in 51 large cities combined from 1929 to date are shown by commodity groups in table 4. The accompanying chart shows the trend in the retail cost of all foods and of the commodity groups-cereals and bakery products, meats, dairy products, and fruits and vegetables from January 15. 1929, to August 27, 1935, inclusive.

Table 4.- Indexes of the Average Retail Cost of 48 Foods in 51 Large Cities Combined, by Commodity Groups, 1929-35, Inclusive 1

[1913=100.0]

Year and month	All foods	Cere- als and bakery prod- ucts	Meats	Dairy prod- ucts	Eggs	Fruits and vege- tables	Bev- erages	Fats and oils	Sugar and sweets
1929	156. 7 147. 1	164. 1 158. 0	188. 4 175. 8	148. 6 136. 5	142. 0 118. 8	172. 6 179. 9	151. 9 131. 4	132. 4 124. 7	124 (
1931	121.3	135.9	147.0	114.6	91.9	126. 6	114.1	101.3	108.9
1932	102.1	121.1	116.0	96.6	78.8	106.6	103. 2	75.1	98.
1933	99.7	126.6	102.7	94.6	75. 6	116.6	93. 1	70.2	
1934	110.8	147.9	117. 1	102. 2	86. 7	121.9	96.0	80.0	
Jan. 2	115.9		123.7	109.7	110.1	107. 2	101.3	100.0	107.
15	118.5	151. 2	132.3	112.3	109.0	107.6	101.2	104.6	
29	119.8	151.3	137.9	114.4	108.7	108. 3	101.3	107.5	105.
Feb. 12	122.0		140. 1	117.3	111.6	110.4	101.0	109.6	
26	122.3		144.0	116.8	101.4	113.0	101.4	112.0	
Mar. 12			149. 6	113.3	84.6	117.7	100. 2	114.0	
26			149.8	112.4	81.1	122.0	99.6	114.8	1 000
April 9		151.3	151.7	115.8	84.0	130. 3	98. 9	115.8	401
23			154.3	114.4	87. 2	136.0		116.2	1000
May 7				110.7	91.6	132 7		116.3	1
21			157.0	108.7	92.7	127. 2		116.2	2.00
June 4			160. 2		92. 7	125. 0		116.9	
18			159.3	106. 5	93. 3			117.0	8 5 5 5
July 2			156.0	104.9	94.8			117. 2	
16				104.3	97.4	117.0		117.6	
30				104.6	100.0			118.3	
Aug. 13			A 10 A 1 A		104.3	A 42-201 -		121.3	
27	. 123. 0	150.1	163. 5	105. 2	108.1	103.4	95. 6	124.4	111

¹ The number of commodities was increased from 42 to 48 on May 21, 1935.



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Sugar and sweets

124.6 117.6 108.9 98.3 104.1 107.9

107.0 105.4 105.4 105.7 107.2 105.7 105.8 107.1 107.1 108.6 110.2 110.2 110.3 111.8 111.7 111.8

Food Prices in Hawaii

RETAIL prices of 41 foods on the first of each month have been collected for Hawaii since February 1, 1930, and are shown separately for Honolulu and other localities in the islands.

No commodity weightings are available for Hawaii, hence no weighted indexes have been computed. In order to show changes in the retail prices of 41 foods combined, unweighted indexes, based on averages of the 11 monthly prices for 1930 as 100, have been computed for Honolulu and other localities. The unweighted index for each reporting period is a simple average of the relative prices (1930=100) of the 41 foods reported for that date.

Table 5 shows unweighted indexes for Honolulu and other localities in Hawaii by months since February 1930.

Table 5.—Unweighted Indexes of Average Retail Prices of 41 Foods in Hawaii Aug. 1, 1935, to Feb. 1, 1930, Inclusive

					(1930	=100]						
	Honolulu					Other localities						
Month 1	1935	1934	1933	1932	1931	1930	1935	1934	1933	1932	1931	1930
February 83 March 84 April 86 May 81	1. 34 3. 48 5. 24 6. 91 9. 31 8. 70	77. 73 77. 67 79. 71 80. 49 80. 13 80. 49	74. 41 73. 07 72. 32 72. 77 73. 30 73. 69	87. 06 85. 94 86. 00 85. 11 83. 09 81. 75	96. 20 94. 45 93. 29 91. 28 91. 65 90. 99	101, 13 100, 93 101, 01 101, 58 101, 46	80. 20 79. 70 82 17 84. 16 85. 34 85. 23	77. 93 77. 33 77. 95 78. 02 78. 05 77. 87	73 76 71. 63 70. 18 69. 87 71. 09 72. 12	86. 05 85 53 84. 54 84. 76 83. 47 81. 97	95. 01 93. 68 92. 97 91. 84 91. 55 91. 79	101.12 100.78 101.81 102.31 101.97
	7. 35 6. 27	81. 07 80. 60 81. 16 81. 38 81. 92 81. 61	74. 66 76. 76 77. 10 77. 79 77. 65 77. 71	77. 96 76. 97 76. 00 76. 02 74. 60 74. 25	90. 57 90. 81 89. 89 89. 79 89. 12 88. 32	100. 39 99. 71 100. 07 99. 40 98. 71 96. 88	84. 25 84. 26	77. 56 78. 94 79. 98 80. 52 80. 61 80. 08	73. 12 75. 67 77. 89 78. 36 77. 07 75. 80	77. 67 76. 37 75. 98 75. 68 75. 00 74. 29	90. 92 90 73 89. 07 89. 30 88. 37 88. 46	99 8 99 8 97.3 97.1 95.8

Retail Prices of Food in the United States and in Certain Foreign Countries

THE accompanying table brings together the index numbers of retail prices of food published by certain foreign countries and those of the United States Bureau of Labor Statistics, the base years in all cases being as given in the original reports. Indexes are shown for each year from 1926 to 1932, inclusive, and by months since January 1933.

As shown in the table, the number of articles included in the index numbers for the different countries differs widely. In certain instances, also, the figures are not absolutely comparable from month to month over the entire period, owing to slight changes in the list of commodities and the localities included on successive dates.

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Index Numbers of Retail Food Prices in the United States and in Foreign Countries

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ountry	United States	Australia	Austria	Belgium	Bulgaria	Canada	China	Czecho- slovakia
_{Somputing} agency	Bureau of Labor Statistics	Bureau of Census and Sta- tistics	Federal Statistics Bureau	Ministry of Indus- try, Labor, and Social Welfare	General Direction of Statis- tics	Domin- ion Bu- reau of Statistics	National Tariti Commis- sion	Central Bureau of Statistics
Number of localities.	51	30	Vienna	59	12	69	Shanghai	Prague
Commodities in- cluded	42 foods	46 foods and gro- ceries	18 foods	33 foods	35 foods	46 foods	24 foods	35 foods
Base=100	1913	1923-27 (1000)	July 1914	1921	1926	1926	1926	July 1914
928	156. 7 147. 1 121. 3	1027 1004 989 1047 946 830 801	116 119 119 122 118 108	1 170. 7 1 207. 5 1 207. 4 1 218. 4 1 208. 6 1 176. 4 1 149. 9	100. 0 97. 8 102. 5 106. 4 86. 7 68. 0 62. 8	100. 0 98. 1 98. 6 101. 0 98. 6 77. 3 64. 3	100. 0 106. 7 92. 1 98. 4 118. 8 107. 5 101. 3	* 117. 8 * 126. 2 * 125. 5 * 123. 1 114. 3 104. 2 99. 0
1933 January	94. 8 90. 9 90. 5 90. 4 93. 7 96. 7 104. 8 106. 9 107. 2 107. 0 106. 8	747 742 734 746 750 759 754 767 768 764 750 769	106 103 103 103 106 104 104 104 104 104	151. 2 153. 3 153. 6	62 9 63.3 63.1 61.8 60.6 60.2 60.9 60.4 60.4 60.7 61.6 62.4	62. 8 60. 6 60. 4 61. 3 61. 9 62. 2 63. 2 67. 8 65. 9 65. 4 65. 8 66. 6	84. 1 86. 3 90. 0 88 0 88. 1 83. 2	98. 8 96. 8 95. 2 94. 2 94. 2 94. 6
1934 January February March April May June July August September October November December	3 108. 2 3 108. 3 3 107. 4 3 108. 8 3 108. 8 3 110. 0 3 113. 6	771 774 791 798 777 779 789 791 805	101 101 102	146. 8 141. 1 136. 5 132. 1 134. 0 136. 8 143. 3 146. 1 149. 4 150. 0	62. 7 61. 5 60. 9 60. 7 61. 7 60. 8 61. 0 61. 8 62. 1	69. 4 72. 9 71. 0 68. 6 67. 6 68. 4 69. 3 68. 8 69. 9	80. 4 75. 0 74. 2 74. 4 75. 4 90. 2 102. 8 106. 7 98. 9	91.3 75.9 75.5 76.8 79.6 79.6 78.9 77.1 77.1
1935 January February March April May June July August	\$ 121.7 \$ 124.7 \$ 124.2	798 795 795 802 805	99 98 97 98	138. 2 130. 8 133. 4 136. 0 141. 4	62.3 60.7 60.3 59.6	69. 2 69. 5 68. 6 68. 7 69. 3 71. 3	91. 0 85. 7 88. 6 88. 6 89. 5	76. 2 76. 7 76. 8 78. 3 82. 7 83. 5

¹ Computed average.

² July.

⁸ Average.

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Index Numbers of Retail Food Prices in the United Stases and in Foreign Countries—Continued

Country	Estonia	Finland	France	Germany	Hungary	India	Ireland	Italy
Computing agency	Bureau of Statistics	Ministry of Social Affairs	Commission of Cost of Living	Federal Statistical Bureau	Central Office of Statistics	Labor Office	Department of Industry and Commerce	Office Provin- cial of Economy
Number of localities.	Tallin	21	Paris	72	Budapest	Bombay	105	Milan
Commodities in- cluded	52 foods	14 foods	Foods	24 foods	12 foods	17 foods	29 foods	18 foods
		January-	Innuary	October				_
Base=100	1913	June 1914	January- June 1914	1012 []	1913	July 1914	July 1914	January June 191
1926		1107. 8	1 529	144. 4	113.3	1 152	179	654
1927		1115. 1	1 536	151.9	124.8	1 151	170	558
1928		1150. 2	1 539	153. 0	127.7	1 144	169	517
1929		1123.5	1 584	155. 7	124. 1	1 146	169	542
1930		971.2	1 609	145.7	105. 1	1 134	160	519
1931		869. 0 897.3	1 611	131.0 115.5	93. 2 91. 2	1 102 1 101	147 141	451 431
1933					11.1			10.
		894. 1		111.3	86.5	101		490
January February	74	883. 5		110.3	86. 2	98	130	42
March	75	869.8	542	109.4	86. 1	98	100	41
April	73	868. 0	012	109.5	85. 5	93	********	40
April May	74	867. 8		112.8	84.7	91	126	39
June	74	881.7	532	113.7	84.4	95	120	40
July	77	907. 1		113.5	79. 2	95	*********	40
August	81	919.9		113.4	77.8	94	129	39
September		920. 1	530	114.4	77.3	94		40
October		923. 2		115.9	73.7	91		40
November		911.0	F40	117.1	72. 2	92	140	40
December	79	881. 2	548	117.8	74.3	88		40
1934 January	78	853.4		117.6	74.8	86		45
January February	79	843. 1		117. 0	76.1	85	133	42 40
March	78	865. 3	548	116.5	75. 7	84	100	40
April	79	853. 8	010		76.1	83	*********	40
May	79	850.5		116. 1	80. 2	83	129	3
June	. 77	852. 0	544	117.8	79.6	85		38
JulyAugust	77	854. 6		120.0	77.2	87		36
August	75	884. 2		120.7	77.9	87	134	3
September	73	885. 7	525	119. 2	77.9	90		
October	72	903. 3		119.3	77.7	91		. 38
November	72 72	941. 7 922. 1	516	119. 5 119. 1	76. 0 75. 7	92 90	143	38
THE STATE OF THE S			0.0	110. 1	10.		********	-
January	74	908.3		119.4	75.8	88		3
February	77	893.8	494	119.4	76. 9	90		
March	76	884.6	404	118.8	78.2	89	100	3
April	76	886. 1		119.0	78. 0	88		3
May	75	875. 7	491	120. 2	78.2	90	132	
June	73	887. 5	401	120.6			102	3
July	76	908.9		122.9	84.7	93	***********	3
August		934.5		*****	0	94		4

¹ Computed average.

Index Numbers of Retail Food Prices in the United States and in Foreign Countries—Continued

Country	Nether- lands	New Zealand	Norway	Poland	South Africa	Sweden	Switzer- land	United Kingdom
Computing agency.	Bureau of Statis- tics	Census and Sta- tistics Office	Central Bureau of Sta- tistics	Central Statisti- cal Office	Office of Census and Sta- tistics	Board of Social Welfare	Federal Labor Office	Ministry of Labor
Number of localities.	Amster- dam	25	31	Warsaw	9	49	34	509
Commodities in-	15 foods	58 foods	89 foods	25 foods	20 foods	43 foods	28 foods	14 foods
Base=100	1911-13	1926-30 (1000)	July 1914	1928	1914 (1000)	July 1914	June 1914	July_1914
1926	1 163. 0 1 166. 4 1 162. 4 1 150. 2 1 135. 8	1026 983 1004 1013 974 844 775	2 198 2 175 168 158 152 139		1 1169 1 1153 1 1101 1 1049	1 140	160 158 157 156 152 141 125	
1933 January February March April May June June October November December	116. 5	727 712 714 727 723 732 732 741 746 753 751	132	58. 6 60. 0 60. 4 60. 0 59. 5 60. 4 8 55. 3 2 56. 0 2 55. 9 5 5. 9	938 950 966 976 989 980 971 9 1020	119	117 116 116 116 116 116 116	122 119 115 114 114 118 119 122 123
January February March April May June July August September October November December	125. 5	763 769 777 780 778 780 774 771 771 780	12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	8 55.3 8 54.6 0 55.6 0 52.6 2 51.3 3 51.3 6 52.5 5 51.4 4 49.	3 103 6 103 0 105 6 105 2 104 103 1 103 4 102 4 103	8 120 5 1 122 7 123 7 124 8 126	110 111 111 111 111 111 111	122 5 126 5 116 5 116 5 117 5 122 4 122 4 122 5 122
January February March April May June July August	118.3	791	8 13 1 13 9 13 4 13 9 13 6 13	33 48. 34 48. 35 47. 35 47. 36 48. 38 49. 40 52.	7 102 0 102 4 102 2 103 5 103 6 103 6 103	11 12 13 14 150 12 14	4 11 11 11 11 11 11 11	3 12 2 12 2 12 1 11 1 11 13 12 15 12

¹ Computed average.

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421.9 407.9 406.8 404.8 341.7 383.8 383.5 376.7 377.8 381.0 386.7 390.5

386.8 389.9 389.8 393.2 392.6 394.3 397.4 402.3

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Wholesale Prices in August 1935 (With Summary Data for First Half of September)

Summary

DURING the first 8½ months of the current year, the general trend of wholesale commodity prices has been upward. The rise, which began in October 1934, continued with increased momentum through January and February. The composite index declined fractionally in March and again rose sharply in April. The level for May moved fractionally upward followed by a slight reaction in June and July. The August average shows an increase of more than 1 percent compared with July. The advance continued through the middle of September.

The combined index of the 784 individual items weighted according to their importance in the country's markets stood at 80.5 percent for August, and 80.8 for the week ending September 14. This represents a net gain of approximately 5 percent over the December 1934 level and an increase of more than 5 percent over the corresponding period

of last year.

Price changes in the farm products and foods groups largely accounted for the changes in the composite index during the first 8½ months. In this period the farm-products index increased 10 percent and the index for foods rose nearly 13 percent. By contrast, the large industrial group, "all commodities other than farm products and processed foods", declined slightly during the period. During the 8 months, raw materials advanced 5.5 percent; semimanufactured commodities increased 3.1 percent; and finished products rose 4.4 percent. The nonagricultural-commodity group, which excludes farm products, advanced 3.6 percent. Of the 10 major groups of commodities covered, 8 showed increases for the 8-month period, ranging from 0.4 percent for the building-materials group to 12.7 percent for the foods group. The housefurnishing-goods group and the miscellaneous-commodities group declined 0.9 percent and 5.2 percent, respectively.

Weekly Fluctuations

During the weeks ending August 3, 10, 17, and 24 sharp advances in market prices of farm products and foods were the principal factors contributing to the rise in the composite index. During the 4 weeks,

both groups advanced more than 4.5 percent. Slight reactions in farm products, foods, chemicals and drugs, and miscellaneous commodities resulted in the 0.4 percent decline during the week of August A further fractional decline took place during the first week in September, largely as a result of lower prices in the groups of foods, fuel and lighting materials, and miscellaneous commodities. highest level reached during the current year was during the week of September 14, when the index stood at 80.8 percent of the 1926 average. Marked advances in farm products, hides and leather products.

and foods were mainly responsible for the rise.

The advance in farm products during the first 4 weeks of August was due to higher prices for livestock and poultry. The subgroup of grains, on the other hand, was fractionally lower, although prices of wheat were higher. Wholesale meat prices followed the trend of Fruits and vegetables registered a seasonal decline. livestock. Average prices of both farm products and foods weakened during the last week of August because of lower prices for livestock and poultry and meats. Wholesale prices of cotton, potatoes, wool, and ard also declined. The farm-products group reacted during the first two weeks of September and rose to 81.2 percent of the 1926 average. Foods continued downward during the week ending September 7, but reacted the following week.

Prices and hides and leather products and textile products moved steadily upward during August and the first 2 weeks of September. The index for each of these groups has reached a new high for the year. Higher prices for hides, skins, and leather were responsible for the increase in hides and leather products. For textile products the advance was chiefly due to pronounced increases in the average price

of silk.

Price fluctuations in the metals and metal products, buildingmaterials, chemicals and drugs, and house-furnishing-goods groups were within a narrow range during August and the first half of September, although the major direction has been upward. Fuel and ighting materials have remained steady.

Cattle-feed prices dropped more than 15 percent between the last week of July and the first week of September. A slight upturn was shown for the second week of September. Crude rubber prices were

lower during August.

The index for the Bureau of Labor Statistics includes 784 price series weighted according to their relative importance in the country's markets and based on average prices for the year 1926 as 100.

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Wholesale Price Level in August

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Taking the month of August as a whole the composite index of wholesale prices shows an increase of 1.4 percent over the July average. Seven of the ten major commodity groups included in the general index—farm products, foods, hides and leather products, textile products, metals and metal products, building materials, and house furnishing goods—advanced during the month. Decreases were recorded for fuel and lighting materials, chemicals and drugs, and miscellaneous commodities.

Average prices of 195 of the 784 individual price series covered showed increases during the month. In contrast 121 price series registered a lower average and 468 showed no change from the level for July. The table following summarizes the changes in wholesale prices during the month interval by commodity groups.

Table 1.—Number of Commodities Changing in Price from July to August 1935

Groups	Increases	Decreases	No chang
All commodities	195	121	4
Farm products	32	27	
Hides and leather products	68 17	38	
Textile products Fuel and lighting materials	28 4	13 11	
Metals and metal products	19 22	6 13 10	1
Chemicals and drugs House-furnishing goods	11 11	5	
Miscellaneous commodities	3	9	

Sharp increases in average market prices of farm products and processed foods were largely responsible for the rise in the general index during the month. The index for the group, "all commodities other than farm products and processed foods", was slightly lower than in July and 0.5 percent below the level of a year ago. The nonagricultural-commodity group advanced 1.0 percent during the month and was 3.6 percent above August 1934.

The raw-materials groups, which excludes basic farm products and other raw materials, increased 1.7 percent or to 77.1 percent of the 1926 average.

Table 2 shows index numbers for the groups and subgroups of commodities for August 1935 in comparison with July 1935 and August for each of the past 6 years.

Table 2.—Index Numbers of Wholesale Prices by Groups and Subgroups of Commodities

[1926=100]

	[1020	_100j						
Groups and subgroups	August 1935	July 1935	August 1934	August 1933	August 1932	August 1931	August 1930	August 1929
All commodities	80. 5	79. 4	76. 4	69. 5	65. 2	72. 1	84. 3	96. 3
Farm products	79.3	77.1	69.8	57.6	49. 1	63.5	84.9	107. 5
Grains	1 79.3	78.3	86.0	64.6	38. 2	44.8	80.4	99.3
Livestock and poultry		82.8	56. 2	45.9	52.8	67.0	84.6	112.8
Other farm products		72. 9 82. 1	73. 1 73. 9	62. 5 64. 8	50.8 61.8	67.3	86.7	106. 8 103. 5
Butter, cheese, and milk	75. 7	74.0	77.3	65. 7	60. 2	82. 2	97.7	104. 1
Cereal products	94.6	92.7	91.0	84.8	66.0	70.9	79.9	90.3
Fruits and vegetables		65. 1	65. 6	71.1	55.6	73.4	88. 6 93. 1	109.5
Meats Other foods	102.0 78.6	93. 3	69. 4 68. 9	51. 0 62. 6	61. 9	76.0	78. 1	94. 7
Hides and leather products	89.6	89.3	83. 8	91.7	69. 7	88.7	99.0	109. 5
Boots and shoes	. 98. 3	97.8	97.9	96. 1	84.4	93. 5	100.6	106, 1
Hides and skins		79.8	57. 4	91.5	39.3	69.1	91. 2	117. 2
Leather	80. 2	80. 2	71. 3 86. 8	82. 5 81. 2	60. 0 82. 3	90.3	99. 9 105. 4	111, 8
Other leather products	70.9	70. 2	70.8	74.6	52.7	65. 5	78. 0	89.8
Clothing	. 80. 5	80.7	79. 5	74.4	61.0	75. 9	86.3	89.3
Cotton goods	82.5	82.0	86. 4	93. 5	52.6	64.0	81. 1	98.2
Knit goods		59. 9	59.3	69.4	48.5	59. 2	78.2	87.
Silk and rayon	31.0	27. 9 76. 4	78.9	34. 6 78. 9	29. 5 53. 4	67.4	52. 6 77. 8	80.1
Other textile products		69. 1	69.7	77.8	67.4	74.4	83. 1	94.
Fuel and lighting materials	74. 1	74. 7	74.6	65. 5	72.1	66, 5	77.9	82.
Anthracite coal	78 6	77.0	79.9	79. 2	86.0	92. 2	88.0	90.
Bituminous coal	- 96.0	96. 5	96. 2	83.6	81.3	83.7	88.6	90.
CokeElectricity		88. 6 87. 8	85. 6 92. 6		76, 7 104, 4	81. 5 98. 4		84. 92.
Gas		94.0	99. 2		107.0	103. 2		94.
Petroleum products	52.4	52.9	51.6		48.9	37.5		70.
Metals and metal products	- 86.6	86.4	86. 7		80. 1	83. 9		100.
Agricultural implements	93.6	93. 6	92.0		84.9	94.3		99.
Iron and steel	87.1	87. 0 94. 7	86. 6 94. 6		78. 7 95. 3	82. 4 94. 7		
Nonferrous metals	66. 9	66. 1	68. 9		48. 5			
Plumbing and heating.	71.1	68.8	75.0	70.3	67. 1	83. 8	83. 5	
Building materials	- 85.4	85. 2	85.8		69.6			95.
Brick and tileCement	89.0	89. 1 94. 9	91.3		75. 2			
Lumber	82.0	81.7	81.8		55. 5			
Paint and paint materials	- 78.6	79.1	79.9		67. 2			
Plumbing and heating	- 71.1	68.8	75.0					
Structural steel Other building materials	92.0	92. 0 89. 7	92.0		81.7			
Chemicals and drugs	78.6	78.7	75.7					
Chemicals	_ 84.3	84.6	79. 2					
Drugs and pharmaceuticals	73.8	74.0	72.7					
Fertilizer materials	66.8	65.7	64.8					
Mixed fertilizers Housefurnishing goods	68. 1 80. 5	68. 6 80. 4						
Furnishings	84.0							
Furniture	77.0	76.8						
Miscellaneous	67.3							
Automobile tires and tubes	45.0							
Cattle feed Paper and pulp	71.3							
Rubber, crude	24.5							
Other miscellaneous	80.0	80.1	81. (77.8	84.2	86.4	93.2	98.
Raw materials	77.1		71.6					
Semimanufactured articlesFinished products	73. 2 83. 0			5 71.7 2 73.4				
Nonagricultural commodities	80.6							
All commodities other than farm product	8	1	1,513					
and foods	77. 9	78.0	78.	3 74.1	70.	1 74.	2 83. (91.

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Shanghai Family Budget Inquiry, 1929-30

POOD expenditures of workers' families in Shanghai, according to the family-budget study of 1929–30 in that city, represented 57.4 percent of the total, housing 11.2 percent, clothing 7.5 percent, fuel and light 6.4 percent, and miscellaneous expenditures 17.5 percent. The returns covered 305 selected workers' families consisting of 3 to 7 persons and with family earnings of \$20 to \$60 a month (Chinese currency). The findings of the study were analyzed by income groups and on the basis of consumption per adult male, according to a modified form of the Atwater scale adopted in 1919–20 by the Osaka Municipal Bureau of Labor Research.

In table 1 the analysis of family composition of those covered by the budgetary study is shown by income groups.

Table 1.—Analysis of Family Composition, by Size of Income, in 305 Workers' Families in Shanghai

	- dillinic	, 0	B.i.e.			
Annual income group (Chinese	Number	Average	number of per family	persons	Average number of	A verage number
currency)	of fami- lies	Total	Members of family	Boarders	equivalent adult males per family	gainfully employed per family
All income groups	305	5. 09	4. 62	0.47	3.42	2.06
\$200 to \$300 \$300 to \$400 \$400 to \$500 \$500 to \$600 \$600 to \$700 \$700 and over	62 95 80 31 25 12	4. 13 4. 53 5. 45 6. 13 6. 48 7. 25	3. 95 4. 17 4. 89 5. 19 5. 92 5. 75	. 18 . 36 . 56 . 94 . 56 1. 50	2. 85 3. 09 3. 61 4. 02 4. 23 4. 38	1. S2 1. 93 2. 19 2. 42 2. 22 2. 17

Of the families studied, over three-fourths had annual incomes of less than \$500. Size of family tended to increase with incomes as did also the number of boarders, resulting in a steady increase from one income class to the next in the average number of equivalent adult males per family up to a maximum of 4.38 in the class, \$700 and over. The average number of gainfully employed per family reached a peak of 2.42 persons in the \$500 to \$600 income class; there was a slight recession in each of the two successive income classes. For all income classes the average number of adult males per family was 3.42 and the average number gainfully employed 2.06.

International Labor Office. International Labor Review, August 1935 (pp. 230-241): The Shanghai family budget inquiry of 1929-30.

At time of investigation value of Chinese dollar was 58 cents, United States currency.

Source of Income

In table 2 are shown the various items of income according to source for all families surveyed, and a percentage distribution by income groups. The classification covers current income from earnings, gifts, etc., and noncurrent income from borrowings and credit. Average net income for the 305 families covered amounted to \$416.51 and with sums borrowed, etc., this average was brought to \$564.53. Thus 73.8 percent of income was current in nature and most of the balance represented income from sources other than earnings.

Earnings of the husband represented 53.3 percent of the total current income, followed in the order named by earnings of the children (13.9 percent), wife (12.6 percent), and others (7.5 percent). Total income from employment made up 87.3 percent of the current total; of the balance the greatest proportion came from subletting rooms (1.9 percent) and from boarders (2.7 percent), combined. Examination of the table shows certain variations from the general figures in the percentage distribution of sources of current income in families in the different income groups.

Table 2.—Distribution of Yearly Income in 305 Workers' Families in Shanghai, by Source and Income Group

	All fam	illes	Percen	tage dis		n of income		amilies
Item of income	Amount (Chinese cur- rency)	Per- cent of total	\$200- \$300	\$300- \$400	\$400- \$500	\$500- \$600	\$600- \$700	\$700 and over
Gross income	\$564, 53	100. 0	100.0	100. 0	100.0	100. 0	100. 0	100.0
Current incomeNoncurrent income	416. 51 148. 02	73. 8 26. 2	67. 2 32. 8	72. 1 27. 9	77. 1 22. 9	80. 9 19. 1	69. 2 30. 8	77. 1 22. 9
Current income								
Income from employment	222. 05 52. 50 57. 80 31. 18 52. 98 7. 90 11. 41 9. 12 4. 43 2. 74 17. 38	87. 3 53. 3 12. 6 13. 9 7. 5 12. 7 1. 9 2. 7 2. 2 1. 1 . 6 4. 2	92. 1 60. 2 21. 3 7. 1 3. 5 7. 9 . 5 . 8 1. 4 1. 5 1. 8 1. 9	88. 7 - 55. 5 17. 4 12. 9 2. 9 11. 3 1. 7 2. 1 1. 3 - 9 - 15 - 4. 8	87. 6 48. 2 12. 5 16. 6 10. 3 12. 4 2. 1 3. 6 . 8 8 4. 5	86. 0 49. 3 7. 3 16. 4 13. 0 14. 0 2. 0 3. 4 3. 2 2. 0 . 5 2. 9	85. 4 56. 6 4. 8 14. 4 9. 6 14. 6 3. 3 2. 3 3. 3 . 8	78. 2 54. 6 3. 7 13. 5 6. 4 21. 8 1. 9 4. 9 4. 9 5. 7
Noncurrent income		100.0	100.0	100.0	10010	100.0	===	====
Borrowings Receipts from pawned articles Receipts from "hui" funds ! Purchases on credit Loans returned	51. 47 10. 10	45. 2 12. 4 34. 8 6. 8	47. 8 13. 1 33. 8 4. 7 . 6	44. 8 14. 8 34. 3 5. 7 . 4	40. 1 13. 7 36. 3 8. 5 1. 4	54. 5 12. 2 26. 1 6. 4 . 8	50. 2 6. 5 35. 4 7. 1 . 8	33. 2 10. 6 44. 2 11. 6
Total, noncurrent income	148. 02	100.0	100.0	100.0	100.0	100.0	100. 0	100. 0

Mutual-aid societies

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Expenditures by Item

YEARLY expenditures by major items are given in table 3 for all families both in amount and percentage distribution, and also in percentage distribution for the various income groups.

Table 3.-Distribution of Yearly Expenditures in 305 Families, by Principal Items of Expenditure and Income Groups

	All fan	nilies	Perce	entage d amilies	istribut with ye	ion of early inc	ome of-	ure of
Item of expenditure	Amount (Chinese cur- rency)	Per- cent of total	\$200- \$300	\$300- \$400	\$400- \$500	\$500- \$600	\$600- \$700	\$700 and over
Gross payments	\$564. 43	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Current expenditures Savings, etc Cash in hand	454. 38 99. 12 11. 03	80. 5 17. 6 1. 9	85. 1 15. 2 3	80. 6 18. 4 1. 0	81. 1 16. 2 2. 7.	83. 8 14. 3 1. 9	71.7 24.4 3.9	79.4 16.8 3.8
Current expenditures Food 1 Housing 1 Clothing Fuel and light Miscellaneous	29, 00	57. 4 11. 2 7. 5 6. 4 17. 5	60. 5 11. 2 6. 2 7. 8 14. 3	59. 4 11. 9 6. 4 6. 8 15. 5	60. 0 10. 5 7. 4 6. 4 15. 7	54. 2 11. 7 8. 5 5. 7 19. 9	52. 2 11. 5 8. 9 5. 3 22. 1	46.9 10.6 10.5 4.9 27.1
Total, current expenditures	454. 38	100.0	100. 0	100.0	100.0	100.0	100.0	100.0
Savings, etc. Repayment of debts_ Redemption of articles pawned "Hui" subscriptions 3 Payments of bills due Lendings	50. 26 8. 91	31. 5 8. 4 50. 7 9. 0	28. 9 5. 7 57. 3 7. 8 . 3	25. 9 10. 6 53. 3 9. 5 . 7	27. 8 9. 8 51. 9 10. 4	43. 1 8. 3 43. 4 4. 6 . 6	40.3 4.9 45.1 9.6	31.0 9.3 50.1 8.6
Total, savings, etc	99. 12	100.0	100.0	100.0	100.0	100.0	100.0	100.0

¹ Including wine, tobacco, etc.
² Including water, furniture and utensils, repairs.

3 Mutual-aid societies.

Among the current expenditures of all families covered by the survey food bulked largest, representing 57.4 percent of the total; housing made up 11.2 percent, followed by clothing, 7.5 percent, and fuel and light, 6.4 percent. The miscellaneous item of 17.5 percent of the total is the second largest in the distribution for current expenditures.

Subscriptions to mutual-aid societies made up 50.7 percent of the savings classification, the next most important item being repayment of debts, 31.5 percent. Of total gross payments current expenditures accounted for 80.5 percent of the total, savings 17.6, and cash in hand 1.9 percent of the total.

Figures by income class show that expenditures for food were proportionately higher in the lower income groups, ranging from 60.5 percent in the \$200 to \$300 income group to 46.9 percent in the group with \$700 and over. Housing expenditures were approximately the same in all groups. Clothing expenditures, however, were proportionately higher in the higher income groups.

Food.—Expenditures on food per family and per unit of consumption appear in table 4, by principal items of diet.

Table !

All foods Bread, o Rice Whe Oth Meat, fi Milk, m Mil

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Table 4.—Distribution of Yearly Expenditures for Food by Principal Items, Per Family and Per Unit of Consumption, in 305 Families

Year of the A		Yearly expenditure (Chinese currency) per—				
Item of food	Family Unit of consumption		total expendi- ture on food			
All foods.	\$260.65	\$76. 21	100.00			
Bread, cereals Rice Wheat flour Wheat flour Wheaten cake Fresh noodle Other Meat, fish Milk, milk products, etc Milk, milk powder Eggs Lard, vegetable oils Vegetables, fruit Beans and vegetables Fruit Drinks and tobacco Meals taken outside home	105. 90 3. 68 5. 27 2. 66 11. 46 35. 95 5. 29 . 80 3. 11 1. 38 45. 68 42. 18 3. 50 19. 10	37. 71 30. 96 1. 08 1. 54 . 78 3. 35 10. 51 1. 55 . 24 . 91 . 40 13. 35 12. 33 1. 02 5. 58	49. 48 40. 63 1. 41 2. 02 1. 02 4. 46 13. 79 2. 03 31 1. 19 55 17. 55 16. 18 1. 34 7. 33			
Miscellaneous Condiments Candies, etc	24. 38 24. 10 . 28	7. 14 7. 05 . 09	9. 3 9. 2			

The high proportion of expenditures for bread, cereals, etc., is the chief characteristic of table 4. In all, these items represent 49.48 percent of the total food expenditure shown and rice alone accounted for 40.63 percent. There were notably small expenditures for milk and milk products (2.03 percent of the total). Expenditures for meat and fish made up 13.79 percent of the total, and vegetables and fruit, 17.53 percent. Drinks and tobacco formed a considerable percentage (7.33) of the total as did condiments (9.25 percent). report calls attention to the fact that "the percentage expenditure on cereals is surprisingly insensitive to changes in income; the relative expenditure is however slightly less in the higher income groups (it decreases from 56 to 49 percent)." Beans and vegetables maintained approximately the same ratio to other items throughout the income classes, but meat, fish, and eggs increased from 13.1 percent in families where annual income was \$200 to \$300 to 21.7 in families with income of \$700 and over.

Housing.—The figures for size of dwelling show that rooms per family averaged 1.65 in the sample studied, or 1.41 "standard" rooms.³ Rent per room was \$22.93 and per adult male, \$11.06. The expenditure for water averaged \$7.66. This item is high owing to the fact that hot or boiled water and drinking water are usually bought from hot-water shops.

The following tabular statement shows average size of dwellings and yearly rentals for all 305 families:

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¹Cubic content of about 32 cubic meters.

Number of families	305
Average number of rooms per family	1. 65
Average number of "standard" rooms per family 3	1. 41
Average number of "adult males" per standard room 4	2. 33
Average rent per family	\$37, 83
Average rent per room	822, 93
Average rent per standard room	\$26.97
Average rent per "adult male"	811.06
Expenditure on—	
Water	\$7.66
TO 14 1 1 11	\$4. 55
D !	\$1.09

Density of habitation was found highest among the poorer families. Regardless of income, rent paid per "standard" room remained nearly constant, but average rent per adult male increased with income because of the greater size of dwellings inhabited by those with more income.

Clothing.—Piece goods was the largest single item in expenditures for clothing. Such purchases accounted for 54.01 percent of the total clothing cost and included sheetings, shirtings, and other cheap cotton goods. Ready-made clothing represented 11.38 percent of the total. The expenditures by major items per unit of consumption follow:

All items	\$10. 37
Bedding	. 21
Ready-made clothing	1. 18
Piece goods	5. 60
Unclassified	

With rises in income a larger proportion of ready-made clothing was bought, the percentages ranging from 9.23 per adult male in families with incomes of \$200 to \$300 to 14.81 for those with \$700 and over.

Expenditures for clothing were extremely meager and in 24 families for which an inventory of clothing was made the average value of clothing was \$116.64 for all members of a family. Articles jointly used amounted to 16.8 percent of the total; the belongings of husband, wife, sons, and daughters were 34.8, 21.5, 14.4, and 10.2 percent, respectively.

Miscellaneous.—The distribution of miscellaneous expenditures per family shows that sanitary and medical expenditures (17.5 percent of the total of the group), social (13.2 percent), and occasional expenses (28.4 percent) were highest. The actual amounts spent for miscellaneous purposes are listed:

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³ Cubic content of about 32 cubic meters.

⁴ Excluding boarders.

All items 6	\$79.60
Rates and contributions	. 72
Sanitary and medical expenses	13.92
Religious worship	5. 32
Education	1. 45
Social intercourse	10. 54
Amusements	2.40
Communications	5. 37
Occasional expenses	22.64
Other items 6	17. 24

The distribution by income classes shows that, regardless of income, the chief miscellaneous expenditures fall under the same headings as for the group as a whole. However, the absolute sums spent for a single purpose increased considerably. To exemplify, families with \$200 to \$300 spent \$9.64 for sanitary and medical expenditures while those with \$700 and over expended \$23.56 on this item; the percentage relationships of these items to total miscellaneous expenditure were 20.0 and 10.9, respectively.

Including savings, interest on debts, and expenditures for ornaments.

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Excluding expenditures on wine and cigarettes, water, furniture, and utensils and repairs.

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Official—United States

ARKANSAS.—Emergency Relief Administration. Division of Research and Statistics. A study of Arkansas coal mines and miners. Little Rock, 1934. Various paging, maps, charts.

A review of statistical information on the coal industry of Arkansas, with sections devoted to the economic and social position of miners and the attitude of employers.

Colorado.—Bureau of Mines. Annual report, for the year 1934. Denver, 1935. 72 pp.

Lists of operating mines, quarries, mills, and smelters, a table on production, and data on fatal and nonfatal accidents are given in the report.

From 1906 to 1914 there were 2.22 persons killed in the mines of the State for every 100,000 shifts worked; 1.35 from 1915 to 1922; 1.0 from 1923 to 1930, and 0.92 from 1931 to 1934.

Connecticut.—Emergency Relief Commission. Report, January 1933 to December 1934. Hartford, [1935]. 142 pp., maps, charts.

Georgia.—Department of Industrial Relations. Report for the fiscal years 1932 and 1933. Atlanta, 1935. 74 pp.

The report includes information on employment, wages, and industrial accidents, and a list of the manufacturers of the State. During 1932 and 1933 a total of 37,203 accidents was reported; the compensation paid amounted to \$606,336, and medical and burial expenses to \$438,754. In 1931 there were 23,667 accidents and the compensation paid amounted to \$856,148. Fatalities showed a decline from 279 in 1929-30 to 244 in the years 1931-33.

- Iowa.—Emergency Relief Administration. The activities of the Iowa Emergency Relief Administration for the period January 1933 through December 1934. Des Moines, 1935. 116 pp., maps, charts.
- Planning Board. Committee on Population and Social Trends. Seasonal unemployment in Iowa, by Howard Bowen. [Des Moines?] 1935. 34 pp. (Mimeographed.)

A study made for the purpose of measuring seasonal variations in the more important industries in the State, of discovering the periods of maximum and minimum employment, and of estimating the number of workers affected in the relatively prosperous year 1929.

- MASSACHUSETTS.—Department of Labor and Industries. Labor Bulletin No. 170: Time rates of wages and hours of labor in Massachusetts, 1934. Boston, [1935?]. 71 pp.
- Board of Conciliation and Arbitration. Report, together with decisions rendered by the Board, for the year ending November 30, 1934. Boston,

A review of the year's activities in conciliation of grievances, and the terms of the arbitration awards, several of which provide detailed piece price lists in shoe manufacture.

—— Division of Statistics. Report on the census of unemployment in Massa-chusetts as of January 2, 1934. Boston, 1935. 202 pp., charts. Data from preliminary reports on this census were published in the December

1934 and April 1935 issues of the Monthly Labor Review.

MICHIGAN.—Emergency Welfare Relief Commission. Cost of administration in the emergency relief program: A report on the administrative expenses of the State emergency relief administration and the county emergency relief administrations in Michigan. Lansing, 1935. 24 pp., charts.

MINNESOTA.—Department of Labor and Industry. Twenty-fourth biennial report, 1933-34. St. Paul, 1935. 269 pp., charts.

Presents the reports of the several divisions of the department—accident prevention, boiler and mine inspection, the deaf, employment, statistics, women and children, and workmen's compensation. The report of the division of accident prevention contains an account of the occupational disease survey conducted by the division as a Civil Works Administration project.

Emergency Relief Administration. Division of Safety and Compensation. [First-aid instruction and safe practices.] St. Paul [1935?]. Various paging, (Mimeographed.)

NEVADA.—Industrial Commission. Biennial report, reviewing the administration of the Nevada Industrial Insurance Act for the period July 1, 1932, to June 30,

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1934. Carson City, 1935. 40 pp.
During 1932-33 the commission received reports of 2,715 injuries, including 33 resulting in death or permanent total disability; and during 1933-34, of 2,938 injuries including 32 resulting in death or permanent total disability. included 1,119 injuries in construction work at the Boulder Dam during the 2 years, of which 32 resulted in death or permanent total disability.

New York.—Board of Social Welfare. Sixty-eighth annual report, for the year ending June 30, 1934. Albany, 1935. 266 pp., charts.

Contains data on care of the aged—in homes and through pensions; unemploy-

ment relief; and training, placement, and allowances for the blind, etc.

- Department of Labor. Special Bulletin No. 186: New York labor towns enacted at the extraordinary session of 1934 and the regular session of 1935. New York, 80 Centre Street, 1935. 151 pp.

Prison Association. The ninetieth annual report, 1934. Albany, 135 East

Fifteenth Street, 1935. 125 pp.

Includes the report of the committee on competition of products of the cottongarment industry with products of prison labor, and comments thereon by the Prison Labor Authority.

Pennsylvania.—Department of Labor and Industry. Bureau of Industrial Standards. Special Bulletin No. 41: Anthraco-silicosis (miners' asthma). A preliminary report of a study made in the anthracite region of Pennsylvania by United States Public Health Service. Harrisburg, 1934. 81 pp., diagrams. Reviewed in this issue.

WYOMING.—Workmen's Compensation Department. Nineteenth report, for the twelve months ending December 31, 1934; ninth report, Coal Mine Catastrophe Insurance Premium Fund; twelfth report, Wyoming Peace Officers' Indemnity

Fund. Cheyenne, 1935. 145 pp.

Tabulations covering the experience of the State industrial accident fund show that 23 fatal, 712 nonfatal disabling, and 1,536 medical-aid injuries were reported during 1934. Awards in 2,862 cases amounted to \$242,254 for death or disability, to \$3,563 for funeral expenses, and to \$63,079 for medical attention. Additional awards for investigations and witness fees brought the total awards for the year to \$314,573.

United States.—Congress. Senate. Document No. 126 (74th Cong., 1st sess.): Cotton textile industry; message from the President of the United States transmitting a report on the conditions and problems of the cotton textile industry, made by the Cabinet committee appointed by him. Washington, 1935. 154 pp., charts.

Reviewed in this issue.

· Committee on Finance. Investigation of the National Recovery Administration: Hearings (74th Cong., 1st sess.), March and April 1935, pursuant to S. Res. 79, a resolution for an investigation of certain charges concerning the administration of industrial codes by the National Recovery Administration. Washington, 1935. In 6 parts and index. 3,187 pp. UNITED STATES.—Department of Commerce. Bureau of Foreign and Domestic Commerce. Market Research Series No. 4: Code-sponsoring trade associations. Washington, 1935. 105 pp. (Mimeographed.)

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A list of code authorities and sponsoring trade associations in process of preparation when the adverse Supreme Court decision was rendered affecting the National Recovery Administration. Published as of use to those interested in having certain activities, formerly carried on under codes, taken over by trade associations.

Washington, 1935. 28 pp.

Data on productivity of coal mine labor in Japan, taken from this report, are published in this issue of the Monthly Labor Review.

- in 1934. Washington, 1935. 132 pp.

 The bulletin contains some wage data.
- —— Department of Labor. Bureau of Labor Statistics. Bulletin No. 612: Consumers', credit, and productive cooperation in 1933, by Florence E. Parker. Washington, 1935. 80 pp.
- insurance, by Edward Berman. Washington, 1935. 113 pp.
 Summarized in the Monthly Labor Review for August 1935.
- Industrial Recovery Act. Washington, 1935. 18 pp. (Reprint from June 1935 Monthly Labor Review.)
- petroleum industry, 1933-34. Washington, 1935. 25 pp. (Reprint from July 1935 Monthly Labor Review.)
- Canada. Washington, 1935. 21 pp. (Reprint from July 1935 Monthly Labor Review.)
- sale prices, by Jesse M. Cutts. Washington, 1935. 10 pp., charts. (Reprint from July 1935 Monthly Labor Review.)
- in 1934, by Florence E. Parker. Washington, 1935. 24 pp. (Reprint from August 1935 Monthly Labor Review.)
- States as of August 1, 1935. Washington, 1935. 4 pp. (Reprint from August 1935 Monthly Labor Review.)

UNITED STATES.—Department of Labor. Division of Labor Standards. Bulletin No. 1: Discussion of labor laws and their administration—1934 convention of the International Association of Governmental Labor Officials, Boston, Mass. Washington, 1935. 166 pp.

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- A brief account of the proceedings at this conference was published in the Monthly Labor Review for November 1934.
 - Women's Bureau. Bulletin No. 109: The employment of women in the sewing trades of Connecticut—hours and earnings, employment fluctuation, home work, by Caroline Manning and Harriet A. Byrne. Washington, 1935. 45 pp., charts.
- Data on lighting conditions in clothing factories, as developed in this study, are presented in this issue of the Monthly Labor Review.

 - Bulletin No. 132: Women who work in offices—I, Study of employed women; II, Study of women seeking employment, by Harriet A. Byrne. Washington, 1935. 27 pp.
- Department of the Interior. Bureau of Mines. Information Circular 6829: Bituminous coal-mine safety-inspection outline, by G. W. Grove and W. G. Fene. Washington, 1935. 26 pp. (Mimeographed.)
- Outline of method used by the field engineers of the Safety Division, Bureau of Mines, in inspecting coal mines with regard to safety practices and equipment.
- Directions are given for keeping permissible electric lamps in such condition as to furnish miners with maximum light and protection.
- This circular reviews practices in use in Utah coal mines, and gives data on accidents incident to blasting, with preventive suggestions.
- Outline of an accident-prevention program based on the premise that mine accidents are preventable.
 - Information Circular 6840: Review of literature on effects of breathing dusts, with special reference to silicosis, by D. Harrington and Sara J. Davenport. Part 11-A, Chapter 4, Prevention of dust diseases (sections 1 and 2). Washington, 1935. 49 pp. (Mimeographed.)
- This section of the report presents a review of the literature on prevention of dust diseases, and also deals with the principal factors producing pulmonary disease and methods of determination of dust in air.
 - approved by the U. S. Bureau of Mines, by W. P. Yant. Washington, 1935. 6 pp. (Mimeographed.)
- Lists all self-contained oxygen-breathing apparatus, gas masks, hose masks, and filter-type dust, fume, and mist-respirators, which had received official certification of approval by the Bureau on March 15, 1935.
 - —— Report of Investigations 3266: Recent trends in man-hour production at iron-ore mines, by H. W. Davis and others. Washington, 1935. 6 pp., charts.

UNITED STATES.—Department of the Interior. Bureau of Mines. Report of Investigations 3273: Coke-oven accidents in the United States during the calendar year 1933, by W. W. Adams and V. E. Erwin: Washington, 1935.

15 pp., chart. (Mimeographed.)

The data show a reduction in frequency rate for fatal injuries from 1932 to 1933, but an increase for nonfatal injuries. The man-hours' exposure for 1933 was 37,213,766, with a frequency rate of 0.30 for fatalities and of 10.43 for nonfatal injuries; for 1932 the exposure was 33,216,573 man-hours, with a frequency rate of 0.42 for fatalities, and of 9.63 for nonfatal injuries.

Report of Investigations 3277: The National safety competition of 1934, by W. W. Adams and T. D. Lawrence. Washington, 1935. 20 pp. (Mimeographed.)

Names the winners of the annual contest for 1934 and reviews the accident records for the year of the participating 334 anthracite mines, bituminous-coal mines, metal mines, nonmetallic mines, and open-cut mines and quarries, in 38 States.

—— Petroleum Labor Policy Board. Report to the Petroleum Administrator. Washington, August 17, 1935. 38 pp. (Mimeographed.) Reviewed in this issue.

Employees' Compensation Commission. Eighteenth annual report, July 1, 1933, to June 30, 1934. Washington, 1935. 47 pp.

Covers the administration of the three earlier Federal compensation laws-for Federal civil employees, for longshoremen and harbor workers, and for employees in certain employments in the District of Columbia - and also of the act approved February 15, 1934, which provided compensation for traumatic injuries to employ. ees of the Civil Works Administration, subsequently applied to the personnel of the Civilian Conservation Corps.

Federal Emergency Relief Administration. Unemployment relief census, October 1933: Report No. 3, Family composition. Washington, 1935. 115 pp., charts.

Data on family composition of emergency relief cases as of October 1933 for the United States, by States, by urban and rural areas in each State, and for cities with a population of 250,000 or over in 1930.

Federal Trade Commission. Report on textile industries: Part I, Investment and profit, 26 pp.; part II, The cotton textile industry, 34 pp.; part III, The woolen and worsted textile industry, 21 pp.; part IV, The silk and rayon textile industry, 37 pp.; part V, Thread, cordage, and twine industries, 14 pp.: part VI, Tabulations showing financial and operating results for textile companies according to rates of return on investment, rates of net profit or loss on sales, and amount of investment, 41 pp. Washington, 1934, 1935.

Statistics of labor cost are shown for the several branches of the textile industry There is a large amount of variation in the ratio between labor and other costs as between textiles. Labor costs are relatively low in the cotton-textile industry and high in silk and rayon manufacture.

Library of Congress. Division of Bibliography. Federal aid to specific activities in the United States: a selected list of recent writings, compiled by Anne L. Baden. Washington, January 31, 1935. 44 pp. (Mimeographed.) The references are classified under the following heads: General, agriculture, education, forest protection, housing, maternity and infant welfare, public health, public works, vocational education, and unemployed.

National Labor Relations Board. Decisions, Vol. II, December 1, 1934-June 16, 1935. Washington, 1935. 556 pp.

An introductory statement shows the history of the National Labor Relations Board and its relationship to other bodies. The main report gives individual decisions in full.

National Recovery Administration. Consumers' Division. Retail food price differences between cities, by Henry B. Arthur. Washington, 1935. 52 pp., charts.

Tariff Commission. Report No. 99, Second Series: Report to the United States Senate on employment of nonresident fishermen in United States fisheries. Washington, 1935. 28 pp., maps.

It is estimated that the fisheries of the United States give employment to 120,000 fishermen and that from 30 to 50 percent of these are aliens legally residing in the United States.

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Official—Foreign Countries

ALBERTA (CANADA).—Commissioner of Labor. Annual report, for the fiscal year 1934-35. Edmonton, 1935. 25 pp.

Among the data in the report are classified weekly wage rates and weekly hours

of labor.

Australia.—Bureau of Census and Statistics. Official year book of the Commonwealth of Australia, 1934. Canberra, 1935. 942 pp., maps, charts.

A brief outline of the history and government of Australia and statistical

A brief outline of the history and government of Australia and statistical summaries dealing with economic and social subject matter including vital and population statistics, wages, accidents, and agricultural and industrial developments.

Austria.—Bundesamt für Statistik. Statistisches Handbuch für den Bundesstaat Österreich. Vienna, 1935. 254 pp.

This handbook contains statistical information in regard to trade agreements, voluntary labor service, employment and unemployment, social insurance, etc.

Belgium.—Ministère de l'Intérieur. Office Central de Statistique. Annuaire statistique de la Belgique et du Congo Belge, 1935. Brussels, 1935. [Various paging.]

The data given, relating for the most part to the year 1933, include statistics on workers' dwellings, cooperation, savings, retirement and sickness insurance funds, strikes and lockouts, industrial accidents, and the number of employees in various branches of industry.

BURMA (INDIA).—Chief Inspector of Factories. Annual report on the working of the Indian Factories Act, 1911, in Burma, for the year 1934. Rangoon, 1935. 31 pp.

The report includes information on employment of women and children, housing, sanitation, wages, and accidents.

— Labor Statistics Bureau. Report of the working of the Workmen's Compensation Act, 1923, for the year 1934. Rangoon, 1935. 20 pp.

A general discussion of cases arising and principles involved accompanied by a statistical summary of awards made.

Canada.—Department of Trade and Commerce. Bureau of Statistics. Recent economic tendencies in Canada, 1919-1934. Ottawa, 1935. 142 pp., charts. (Issued as a supplement to the Monthly Review of Business Statistics, June 1935.)

The tabulations presented in this supplement include indexes of employment, prices, and cost of living.

CEYLON.—Ministry for Labor, Industry, and Commerce. Committee to Revise the "Mines and Machinery Protection Ordinance" (No. 2 of 1896). Report: Factory legislation. Colombo, 1935. 14 pp.

Recommendations made by the committee relate to inspection, protection

Recommendations made by the committee relate to inspection, protection from machinery, safety of buildings, health, child labor, maternity benefits, working hours, and wages.

CÓRDOBA (ARGENTINA).—Departamento Provincial del Trabajo. Legislación obrera, previsión social, Provincia de Córdoba (leyes, decretos y resoluciones en vigencia), anotados y concordados por el Dr. Luis A. Despontin, Director del Departamento Provincial del Trabajo. Córdoba, 1934. 615 pp., illus.

A compilation of agreements between the Argentine Republic and other nations on workmen's compensation; national labor laws of Argentina; social legislation and labor laws, decrees, and resolutions of the Province of Córdoba; and municipal ordinances on related subjects of the city of Córdoba.

Czechoslovakia.—Office de Statistique. Annuaire statistique de la République Tchécoslovaque. Prague, 1935. 289 pp. (In French.)

A general statistical annual containing data on a wide variety of subjects, including social insurance, employment, wages, industrial disputes, collective agreements, prices, cost-of-living indexes, and production, in 1934 and earlier years.

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Estonia.—Riigi Statistika Keskbüroo. Eesti põllumajandus, 1934. Tallinn, 1935. 167 pp., charts, maps. (In Estonian and French.)

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This year book contains information relating to agriculture in Estonia in 1934, · including prices of agricultural products, wages paid to agricultural workers, and cost of living.

GERMANY.—Reichskohlenrat. Statistische Übersicht über die Kohlenwirtschaft

im Jahre 1934. Berlin, 1935. 133 pp., charts.
Statistics, including wages, length of shift, and productivity, for the coal industry of Germany, with sections devoted to world production, the coal industry of other countries, and movements of international trade in coal.

GREAT BRITAIN.—Board of Trade. Final report on the fourth census of production (1930): Part IV, The timber trades; the clay, building materials and building trades; miscellaneous trades; mines and quarries; public utility services; and government departments. London, 1935. 603 pp.

Department of Overseas Trade. Economic conditions in Belgium in 1934, by N. S. Reyntiens. London, 1935. 88 pp.

The section of the report dealing with social questions contains brief reports on unemployment, strikes, family allowances, housing, cooperation, and cost of living. An appendix on the economic situation in the Grand Duchy of Luxemburg gives summary figures on unemployment and cost of living.

Ministry of Health. Persons in receipt of poor relief (England and Wales).

London, 1935. 37 pp., chart.
Statistical analysis, by physical and mental condition and domicile, of the number of men, women, and children receiving poor relief in England and Wales on January 1, 1935.

Ministry of Labor. Decisions given by the umpire respecting claims for benefit [under the unemployment insurance acts, 1920 to 1933], vol. XII: Selected decisions given during the calendar year 1933 (together with index). 106 pp.

International Labor Office.—The I. L. O. year book, 1934-35. Geneva, 1935. (World Peace Foundation, American agent, Boston.)

The subjects covered include employment and unemployment, wages and hours and other working conditions, social insurance, prices, cost of living, and collective bargaining.

Studies and Reports, Series I, No. 3: Children and young persons under labor law. Geneva, 1935. 342 pp. (World Peace Foundation, American Agent,

This study brings together, in comparative tables, the principal provisions of the laws of the various nations regulating the labor of children and young persons and traces the influence of international conventions in standardizing legislation and enforcement in this field. An introductory chapter presents a historical review of efforts to control child labor from the beginning of the industrial revolution in Great Britain to the present time.

-Istituto Centrale di Statistica del Regno d'Italia. Anuario statistico Italiano, anno 1935. Rome, 1935. [Various paging.]

Statistics through 1933 or 1934 on cost of living, quantity and value of various commodities consumed, wages, number of workers by industries, women and minors in industry, internal migration for labor purposes, and unemployment. The appendix presents comparable figures for various countries, showing area, population, industries, unemployment, minimum wages, and index numbers of cost of living.

New South Wales (Australia).—Bureau of Statistics and Economics. official year book of New South Wales, 1932-33. Sydney, 1935. 854 pp., map, charts.

Statistics are given on employment, wages, and production in agriculture, factories, and mines. A section devoted to social conditions includes information on unemployment relief, child welfare, and old-age pensions.

Norway.—Rikstrygdeverket. Arsberetning nr. 38, 1934. Oslo, 1935. Annual report on operation of the State insurance system in 1934, including insurance against accidents and sickness, personnel of the administration, and financial statements.

NORWAY.—Rikstrygdeverket. Ulykkestrygden for industriarbeidere, 1932. Oslo, 1935. 41*, 113 pp., charts. (In Norwegian and French.)

Annual report on operation in 1932 of the Norwegian public insurance system

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Queensland (Australia).—Registrar-General's Office. ABC of Queensland and Australian Statistics. Brisbane, 1935. 326 pp. Contains statistics of building operations, factory employees and wages, production, etc.

Statistics of the State of Queensland for the year 1933-34. Brisbane,

1935. In 9 parts and index.

A section devoted to social statistics includes data on government relief, and building done under the housing acts. Figures on employment are shown in a section on production.

SIAM.—Ministry of Economic Affairs. Bureau of General Statistics. Statistical year book (1931-33). Bangkok, 1935. 556 pp., map, folder. English edition. Statistics are furnished in regard to prices; wages in certain occupations in Bangkok, 1914 to 1933; and salaries of government employees.

Sweden.—Kommerskollegium. 1931 års företagsräkning. Stockholm, 1935.

Report on the 1931 industrial census in Sweden, including tabulations of the number of workers in the various establishments, by sex, age, and training. There is a résumé in French and a French translation of the table of contents.

VIENNA (Austria)—Kammer für Arbeiter und Angestellte. Wirtschaftsstatistisches Jahrbuch, 1932-33. Vienna, 1934. 478 pp.

The year book contains information on employment, wages, cost of living, industrial disputes, and social insurance.

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AMERICAN COUNTRY LIFE ASSOCIATION. National planning and rural life: Proceedings of the Seventeenth American Country Life Conference, Washington, D. C., November 16-19, 1934. New York, 105 E. 22d Street, 1935. 156 pp. The addresses include such subjects as planning agriculture in relation to industry, population and occupational shifts, developments in State planning.

ALDERON, ENRIQUE. Nueva ley federal del trabajo, con sus adiciones y reformas. 3ª edición. Mexico, D. F., Tip. La Impresora, 1934. 317 pp. and index. The Mexican Federal Labor Law of 1931 with other labor legislation, a discus-CALDERON, ENRIQUE. son of some principles of labor regulation, and recent Supreme Court decisions concerning labor.

CLARKE, JOHN J. Social administration, including the poor laws. London, Isaac

Pitman & Sons, Ltd., 1935. 852 pp.
The second edition of a comprehensive reference work on the history and development of social services and social legislation in Great Britain from the early poor laws and the beginning of specialized care of the defective, delinquent, diseased, and needy, to the enactment and administration of the modern system of social legislation. This legislation, in addition to providing for the care of special classes, deals with housing, health, employment, unemployment, and pensions for the working population in general.

DIEMER, HUGO. Factory organization and admin Hill Book Co., 1935. 412 pp., charts, illus. Factory organization and administration. New York, McGraw-

The fifth edition of a standard work dealing with the physical and personal aspects of factory and office management.

ECONOMIC ESSAYS IN HONOR OF WESLEY CLAIR MITCHELL. New York, Columbia

University Press, 1735. 519 pp., charts.

Seventeen essays covering topics such as low-rental housing, cycles in residential construction, urban decentralization, internal migrations, collective bargaining, purchasing power, retail prices, production, overcapacity, and economic planning.

Everett, Samuel. Democracy faces the future. New York, Columbia University Press, 1935. 269 pp.

A discussion of changing socio-economic conditions.

FAUQUET, G. Le secteur coopératif. Brussels, Les Propagatuers de la Coopér ation, [1935?]. 97 pp.

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Treats of "the place of man in cooperative institutions" and of the role of cooperative enterprises in general economy.

Samuel Gompers, champion of the toiling masses, HARVEY, ROWLAND HILL. Stanford University, Calif., Stanford University Press, 1935. 376 pp., por.

Samuel Gompers, the author holds, "had no life apart from the American Federation of Labor", hence this biography is largely a history of the development of the American labor movement as expressed through the American Federation of Labor. The sources drawn upon are chiefly Mr. Gompers' autobiography and the documentary material in the files and archives of the American Federation of Labor.

HERBERT, GEORGE. Can land settlement solve unemployment? London, George Allen & Unwin, Ltd., 1935. 129 pp.

Section I of this book is an analysis of British agriculture; section II reviews the results of legislation brought into effect since 1908 to assist farmers to obtain and develop small farms; section III presents plans for the successful application of a land-settlement program. The author holds that such a program would promote the best interests of agriculture and the unemployed, and "thus would rural Britain be regenerated."

HELEN. Foreign trade and the worker's job. New York, World Peace Foundation, 1935. 40 pp. (Popular pamphlets on world problems, no. 1.) This is the first of a series of pamphlets planned by the World Peace Foundation for American citizens who desire nontechnical yet reliable information regarding current world problems which affect the United States. As indicated by the title, the booklet outlines the importance of foreign trade to the American wage earner.

Hutchinson, Carl R. Seeking a new world through cooperatives: A discussion unit for young people in the united movement "Christian Youth Building a New World." New York, Methodist Book Concern, 1935. 62 pp.

Inglis, William. George F. Johnson and his industrial democracy. New York, Huntington Press, 1935. 306 pp., illus.

A narrative account of the relations between the Endicott Johnson shoe manu-

facturing organization and its employees.

Institute for Science of Labor (Kurasiki, Japan). Report No. 27: Experimental studies on the day and night inversion of daily routine, by Tomoyosi Isikawa, M. D. Kurasiki, 1934. 14 pp., diagrams.

Report No. 29: I, Sex ratio in the population of Japan proper; II, The influence of industrialism upon the mortality of young people and adults; by Sinzi Katuki, M. D. Kurasiki, 1935. 30 pp., diagrams.

The author attributes the persistent increase of the death rate of young people

in Japan and the phenomenally high mortality of its girls and young women to the growing industrialization of the country.

International Congress for Scientific Management, Sixth, London, July 15 to 20, 1935. [Addresses], manufacturing section, 237 pp., folders, charts, illus.; [Addresses], educational and training section, 124 pp., charts. London, P. S. King & Son, Ltd., 1935.

The topics of the addresses before the manufacturing section covered budgetary

control, scientific works management, and recent developments in time and motion study. Preliminary training, sources of recruitment, avoidance of waste in personnel, and related subjects were discussed at the meetings of the educational and training section.

INTERNATIONAL FEDERATION OF TRADE UNIONS. Economic planning and labor

plans. Paris, 9, Avenue d'Orsay, 1935. 82 pp.

An outline of the International Federation of Trade Unions' demands for economic planning, and the labor plans of Belgium, France, Great Britain, Switzerland, Austria, and Germany.

JENNINGS, HILDA. Brynmawr, a study of a distressed area. London, Allenson

& Co., Ltd., 1934. 246 pp., maps, charts, illus.

A social survey of a portion of the South Wales coal fields, a one-industry community that has experienced years of unemployment because of the depression in the mining industry. The author reviews the historical development and racial origins of the community, analyzes the physical, social, and spiritual consequences upon it of prolonged depression, and discusses the possibilities of its reconstruction and rehabilitation.

KIMML, ANTON. 5 Jahre "Jugend in Not"—ein Werk sozialer Hilfe. Vienna, Kuratorium der Aktion "Jugend in Not", 1935. 127 pp., charts, illus.

An account of the living and social conditions of youth in Vienna and Austria in general, and of public assistance to unemployed youth.

Lowe, Boutelle Ellsworth. The international protection of labor: International labor organization, history and law. New York, Macmillan Co., 1935. 594 pp.

MacDonald, Lois, and Stein, Emanuel. The worker and government. New York, Affiliated Schools for Workers, Inc., 302 East 35th Street, 1935. 141 pp.

Public ill health. London, Victor Gollancz, Ltd., 1935. McNALLY, C. E. 224 pp. The author discusses the evidence regarding the wide-spread malnutrition that he believes exists in England as a result of the depression, with special reference to the official reports which have stated that unemployment has had scarcely perceptible effects on the national health.

NATIONAL EDUCATION ASSOCIATION. Committee on Social-Economic Goals of America. A descriptive bibliography of social-economic education. (Report presented at the representative assembly, Denver, July 1935). Washington, 1201 Sixteenth Street, NW., 1935. 93 pp.

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NEWMAN, WILLIAM H. The building industry and business cycles. Chicago, 1935. 73 pp., charts. (Chicago University, School of Business, Studies in Business Administration, vol. V, no. 4.)

Eighth annual report, 1934. PALESTINE ECONOMIC CORPORATION. New York, 40 Exchange Place, 1935. 82 pp.

Contains data on Jewish immigration into Palestine, general industrial and labor conditions in the country, building construction, the activities of the corporation in assisting cooperative societies in Palestine, and reports regarding some of the cooperative organizations.

Pennsylvania, University of. Wharton School of Finance and Commerce. Industrial Research Department. Monographs, Coal Series, No. 1: Production and distribution costs and sales realization of deep, commercial mines in divisions I, II, and III of the bituminous-coal industry, November 1933 to June 1934, by Waldo E. Fisher. Philadelphia, 1935. 45 pp., charts. (Mimeographed.)

Incidental to showing total costs and sales realization, this analysis brings out the influence of large mines, thick coal, and mechanized processes in reducing

labor costs of production.

Special Report A-5: Trends in the Philadelphia labor market in 1934, by Gladys L. Palmer. Philadelphia, 1935. 15 pp., charts. (Mimeographed.)

According to the data gathered in this study, it may be concluded that more and better jobs were available to applicants at the State Employment Office in Philadelphia in 1934 than in the 2 previous years.

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New York, Russell Sage Foundation, 1935. 284 pp.

Gives a historical discussion of moneylending and efforts to regulate this kind of business by law, the development of the uniform small-loan law and its effects on moneylending, the characteristics of borrowers, expenses and profits of the small-loan business, and a discussion of the reasons for the maximum rates of interest set under various State laws.

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Russell Sage Foundation. Library. Bulletin No. 131: Employment practices in social work; a selected list of references. New York, 130 East 22d Street, June 1935. 6 pp.

Schlossberg, Joseph. The workers and their world: Aspects of the workers' struggle at home and abroad. New York, A. L. P. Committee, 1935. 224 pp. Selected essays from the writings of the author during the 20 years he has been general secretary of the Amalgamated Clothing Workers of America.

Schneider, E. Theorie der produktion. Wien, Julius Springer, 1934. 93 pp., diagrams.

SHILLMAN, BERNARD. The law relating to employers' liability and workmen's compensation in the Irish Free State. Dublin, John Falconer, 1934. 434 pp. Reviews the workmen's compensation system of the Irish Free State, showing changes effected through recent legislation. The text of the act of 1934 and a comparative table of similar sections in the acts of the Irish Free State, Great Britain, and Northern Ireland are included.

SINGLETON, EVELYN ELLEN. Workmen's compensation in Maryland. Baltimore, 1935. 130 pp. (Johns Hopkins University Studies in Historical and Political Science series LIII no. 2)

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The first section of this book presents a general survey of employment opportunities for women, the difficulties which they have to overcome, the causes for the generally low rates of pay accorded them, and their disadvantageous position in regard to pensions, etc. The second section deals with prospects of employment for girls entering the labor market at different ages, and for girls with exceptional qualifications.

SWAYZEE, CLEON OLIPHANT. Contempt of court in labor injunction cases. New York, 1935. 145 pp. (Columbia University Studies in History, Economics, and Public Law, No. 409.)

An analysis of more than 100 labor contempt proceedings in New York State, made with a view to supplying the factual background upon which reform may be based.

Sydenstricker, Edgar. Health insurance and the public health. An address before the Academy of Political Science at its semiannual meeting [April 1935] on problems of social security legislation in the United States. New York, Academy of Political Science, 1935. 20 pp.

THORNDIKE, EDWARD L. Adult interests. New York, Macmillan Co., 1935. 265 pp.

This volume is intended for workers in adult education and for persons preparing to become teachers of adults.

Tuberculosis League of Pittsburgh. Tuberculosis and the Negro in Pittsburgh.

A report of the Negro health survey, by Elsie Witchen, director. Pittsburgh, 1934. 120 pp., charts, illus.

The survey revealed a death rate from tuberculosis among Negroes nearly six times the rate among white persons. The importance of periodic physical examinations for workers whose occupations may endanger the health of the community is stressed in the report.

TWENTIETH CENTURY FUND, Inc. Annual report, 1934. New York, 330 West

42d Street, 1935. 42 pp., charts.

The report contains brief statements regarding the special studies made during 1934, one of which dealt with the role of the Government in labor relations.

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A brief study of unemployment compensation, health insurance, and old-age pensions.

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